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HELIOMETER OBSERVATIONS

FOR

DETERMINATION OF STELLAR PARALLAX

MADE AT THE

ROYAL OBSERVATORY, CAPE OF GOOD HOPE,—

BY

DAVID GILL, LL.D. (ABERD. AND EDIN.), F.R.S.,  
HON. F.R.S., EDIN., &C.,

HER MAJESTY'S ASTRONOMER AT THE CAPE.

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*Published by order of the Lords Commissioners of the Admiralty,  
in obedience to Her Majesty's Command.*

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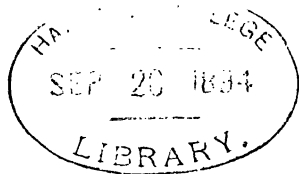
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## INTRODUCTION.

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Soon after I had the honour of being appointed Her Majesty's Astronomer at the Cape, in 1879, I directed the attention of the Lords Commissioners of the Admiralty to the fact that no adequate equipment for refined extra meridian observations existed at the Observatory. Before making further official proposals to remedy this defect I had the good fortune to procure, by private purchase, the Heliometer which I had used at Dun Echt, and in connexion with the expedition of Lord Lindsay (now the Earl of Crawford and Balcarres) to the Island of Mauritius in 1874, when I observed with it the opposition of the minor planet Juno,\* and which I afterwards employed by Lord Lindsay's kind permission, in the Royal Astronomical Society's expedition to the Island of Ascension to observe the opposition of Mars in 1877.†

The instrument as employed at Mauritius and Ascension is fully described in the Dun Echt publications, Vol. II. For use at the Cape I could not obtain the original equatoreal mounting, and therefore ordered a new stand for the Heliometer tube and cradle from Sir H. Grubb of Dublin, taking advantage of the opportunity thus offered to have some alterations made on the instrument which previous experience had proved to be desirable. These alterations were chiefly in connexion with the slow motion of the tube in position-angle. In the original instrument the quick motion in position-angle was accomplished by turning a rod, which carried a pinion which acted on a wheel of which the Heliometer tube formed the axis. Slow motion was given by rotating this rod very slowly by means of a toothed wheel acted on by a tangent screw, but the effect was to create a certain amount of torsion of the rod before any rotation of the tube took place, so that there was wanting that immediate and precise response to the observer's action which is essential for easy and accurate measurement. I therefore planned the following arrangement.

At the end of the cradle next to the observer, there is fitted on the tube (or rather on one of the collars attached to the tube)

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\* Dun Echt publications, vol. ii.

† Memoirs of the R.A.S., vol. xlv., pp. 1-172.

a ratchet wheel with square cut teeth. This wheel is so fitted as to turn smoothly on the collar, but, when the observer so desires, it can be clamped firmly to the tube by a handle coming down to the eye-end. A steel screw with a square-cut thread (such as Grubb uses for the driving screws of his Equatoreals) acts on the teeth of this wheel, whilst the pivots of this screw rest in bushes in a frame attached to the cradle. The screw is turned by bevel wheels acted on by a handle coming down to the eye-end. When the observer turns the handle the wheel slowly rotates; and, if the tube is clamped to the wheel, a smooth easy rotation is communicated to the tube. This slow motion as well as the Equatoreal mounting, and the driving clock were admirably constructed by Sir. H. Grubb and the instrument was in every respect efficient, stable, and convenient.

During a visit to some of the principal European observatories, before my departure for the Cape, I met Mr. W. L. Elkin, a student under Professor Winnecke, who was then engaged in preparing his "*Inaugural Dissertation*" for the Degree of Doctor of Philosophy at the University of Strasburg. The subject he had selected was the orbit and parallax of  $\alpha$  Centauri and he applied to me for any observations of  $\alpha$  Centauri as a double star, or any unpublished meridian observations of  $\alpha$   $\beta$  Centauri which I might find on the records of the Cape Observatory.\* In the course of conversation I informed Mr. Elkin of my purchase of the Heliometer, and of the purposes to which I intended to apply it. He expressed much interest in my programme and his keen desire to take part in such work, It was finally arranged that, on the completion of his curriculum and on the arrival of the Heliometer, Dr. Elkin should come to the Cape and share my labours.

The Heliometer reached the Cape in the end of December 1880 (the Lords Commissioners of the Admiralty having defrayed the cost of transport), and I proceeded at once to erect it in an old observatory which had been built by Sir Thomas Maclear in 1847, to cover a small telescope by Dollond. This observatory is described in *Mem. R.A.S.*, vol. xx, pp. 31-34. I had duly completed the necessary alterations of the building, and the adjustments of the instrument when Dr. Elkin arrived at the Cape, on 1881, January 31. The following month was spent in preliminary experiments, in the selection of stars of comparison, and in the preparation of a programme.

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\* These observations I supplied soon after my arrival at the Cape, and they are incorporated in his Dissertation "*Ueber die Parallaxe von  $\alpha$  Centauri.*" Karlsruhe, 1880.



This settled, I was on the point of leaving for Durban and Aden to carry out the longitude operations connecting these places with the Cape, when I was suddenly recalled to England on urgent private affairs. I made new arrangements for the longitude work, so that when I returned to the Cape on 1881, June 30, I was enabled to take up the programme of the Helio-meter observations at an earlier date than I originally intended. Dr. Elkin occupied my house in my absence, and remained as my guest, and as a member of my family circle until the completion of our programme. He sailed from the Cape on 1883, May 16. His work from first to last was a labour of love.

The results of the observations contained in this volume have been published in the *Memoirs of the Royal Astronomical Society*, vol. xlviii.; but in connexion with such work it is usual and desirable to publish sufficient details of the original observations to enable other Astronomers to verify the subsequent computations.

In the selection of comparison stars the conditions aimed at were:—

1. Symmetrical situation with respect to the star whose parallax is to be determined, that is to say, nearly at equal distances from it, and different in position-angle nearly  $180^\circ$ . As far as possible these position-angles should nearly coincide with the position-angle of the major axis of the parallactic ellipse, but when several pairs of comparison stars are employed this condition cannot of course be fulfilled.
2. Both comparison stars should be nearly of equal magnitude.
3. They should be stars having little or no proper motion.

The following are the positions of the comparison stars as determined with the Cape Transit Circle, and the adopted position-angle and distance from the principal star; the other existing observations reduced to the same equinox will be found in the *Mem. R.A.S., loc. cit.*

Star	Comp. Star.	$\alpha$ 1882.0.	$\delta$ 1882.0.	Mag.	Adopted	
					Position Angle.	Distance.
$\alpha_2$ Centauri -		h m s	° ' "		°	" R
	$\alpha$	14.26.29.30	-59.29.41.6	7	323.07	3836 = 298.1
		31.35.77	-60.20.46.7	1		
	$\beta$	35.51.13	-61.1.7.8	7½	142.24	3063 238.1
	$\alpha^1$	18.9.55	-60.13.7.0	8	274.38	6012 467.2
	$\beta^1$	43.52.13	-60.21.23.4	8	90.39	5466 424.7
	$a$	30.6.20	-58.36.56.7	6.9	354.27	6230 484.2
	$b$	33.43.37	-60.41.29.5	7½	168.45	4970 386.6
	$\alpha^1$	25.1.59	-60.16.42.8	8	274.73	2940 228.4
	$b^1$	14.37.52.90	-60.21.59.8	8	91.50	2802 217.6
Sirius - -	$\alpha$	6.36.41.56	-15.53.41.4	7	310.21	3680 286.4
		39.56.81	-16.33.20.8	-1.4		
	$\beta$	42.22.37	-17.22.49.8	7	144.90	3630 282.0
	$a$	34.49.95	-17.11.12.3	7½	242.77	4950 385.3
	$b$	6.45.5.45	-15.53.40.0	8	61.83	5030 391.9
$\epsilon$ Indi - -	$\alpha$	21.49.56.38	-57.15.56.0	7½	270.35	2130 165.8
		21.54.19.39	-57.16.10.6	5.2		
	$\beta$	21.59.38.30	-57.25.28.5	7½	102.17	2640 205.2
	$a$	21.44.30.89	-57.53.14.0	7	244.83	5200 406.4
	$b$	22.5.2.96	-57.53.7.3	7½	63.10	5920 459.5
Lacaille 9852	$\alpha$	22.49.34.82	-37.18.25.9	7.9	245.88	6830 531.0
	$\beta$	22.58.14.42	-36.31.55.8	7.5		
		23.3.47.98	-36.2.17.8	7.3	66.21	4410 342.5
$\alpha_2$ Eridani -	$\alpha$	4.5.6.75	-9.7.42.0	6.0	220.17	6270 487.3
		9.50.48	-7.50.15.0	4.4		
	$\beta$	4.14.51.47	-6.31.38.8	6.7	43.52	6500 505.2
$\beta$ Centauri -	$\gamma$	13.53.37.90	-59.41.5.2	7	296.26	950 73.9
		13.55.30.40	-59.48.9.6	1.2		
$\zeta$ Tucanæ -	$\alpha$	0.12.43.63	-64.7.52.8	7½	355.02	5190 403.7
		13.54.74	-65.34.6.0	4.1		
	$b$	0.16.0.10	-66.57.31.9	7½	171.42	5060 393.5
$e$ Eridani -	$\alpha$	3.8.17.08	-44.51.45.9	6.2	221.93	6570 511.4
		15.12.89	-43.31.18.9	4.4		
	$b$	3.21.58.74	-42.3.4.1	6.5	42.54	6920 538.3
Canopus -	$\alpha$	6.18.48.41	-52.36.16.0	8	293.98	1380 107.6
		21.19.92	-52.37.53.8	0.4		
	$b$	6.23.29.71	-52.34.58.6	8½	81.50	1190 92.8

A complete observation consists of the following processes :—

1. The Position Circle is set to the required position-angle and the segments separated in distance the requisite amount.
2. The axis of the tube is directed, by means of the Hour and Declination Circles, to the middle point between the stars to be observed, when the images of the two stars are seen together in the field of view.
3. The observer, by slow motion in position-angle and distance, now brings the images to near contact, especially adjusting the distance as nearly as possible. This latter adjustment cannot be accurately made by superposing the images; the best practical method is to first place the images of the two stars so that, while the discs are nearly in contact, the line joining their centres shall be at right angles to the direction of measurement. The estimation of this condition is facilitated in two ways: 1st, the images formed by semi-lenses are not circles but ellipses, and when the definition is good and the stars are sufficiently bright, the most accurate plan is to make the major axes of the two ellipses coincident. The accuracy of this estimation is greatly enhanced by immediate and frequent interchange of the two images by use of the slow motion in position-angle. The symmetrical emergence of the elliptical discs from behind each other in alternate opposite directions forms the most refined method of "pointing" known to astronomers. When the images are very faint or ill-defined, the power of estimating distances in this way is not available, because the major axis of the ellipse cannot be precisely distinguished. To provide for this, four flat intersecting wires were inserted, in the common focus of the object glass and eye-piece, forming a square, in the centre of the field, two sides of the square are parallel to the direction of motion in distance, and two at right angles to this direction. The observer takes the latter pair of wires as his guides, and by motion of the "distance-handle" adjusts the position angle of the artificial close double star parallel to the direction of these wires. This observation is analogous to that in which an observer with a parallel-wire micrometer adjusts the wires parallel to the line joining the centres of the double star whose position angle he is measuring, but with this difference, that the latter moves the position-angle of his micrometer till the

wires are parallel to the stars under observation, whilst the Heliumeter observer changes the apparent position-angle of the artificial double star by motions of his "distance-handle" until the line joining the components is parallel to his guiding wires. Immediately "crossing through" (*i.e.*, exchanging the relative positions of the two stars), he verifies his former observation, and, if he finds it confirmed, proceeds to read the scales. The eye is very sensitive to the symmetrical crossing of the stars and readily detects any apparent change of parallelism in the guiding wires as such error in the first pointing is doubled after "crossing through."

The accuracy in pointing by either of these methods is greatly enhanced when the two images are precisely similar, hence the great attention paid to the construction of the screens employed to equalize the images. These screens were constructed of one, two, and three thicknesses of wire gauze of different mesh, and by careful selection and trial little difficulty was found in procuring satisfactory equalization of the images; the light of Sirius, for example, being reduced to such perfect equality with that of the comparison stars  $\alpha$  and  $\beta$  (7th magnitude) that it was impossible to distinguish the image of Sirius from that of the comparison stars, either by the difference of brilliancy or by the appearance of the disc, when both were viewed near the centre of the square. If the images of the comparison stars differed in magnitude the screen was, as a rule, adjusted so as to reduce the brilliancy of the principal star to the mean brightness of the comparison stars.

When the observer has completed a "pointing" in the manner described, he reads the scales as already mentioned.

The "scales" are of silver, attached to the two slides which carry the halves of the object-glass and are divided into 150 divisions figured at each tenth division. The microscope views both scales at once and (approximately) when the readings of the scale are identical the optical centres of the segments are in coincidence. If this condition could always be realised, the difference of the readings of the two scales would give directly the distance measured in terms of the scale.

In practice it is of course necessary to find accurately the difference of the readings when the optical centres are in coincidence; this difference is termed the "Index-error."

Two turns of the micrometer-screw correspond very nearly with one division of the scale.

An account of the investigation of the division-errors of the scales is given in Dun Echt publications, Vol. II., pp. 11-51.

As the object throughout the following series of observations was to determine not the absolute distance of the primary star from its comparison stars but the change of these distances as produced by proper motion and parallax, the same divisions were employed throughout the whole of the observations of the same distance, and no corrections for division-error have been applied except for determining the Runs.

In reading the scales a pointer marks the centre of the field of view of the microscope, and the division preceding and following the pointer is read on each scale.

The segments and screen are reversed after each observation, a second pointing is made, and the scales again read.

The instrument is then set for the position-angle and distance of the second comparison star and directed by the circles to the middle point for the new pair, a pointing made, the scales read, the segments and screen reversed, the stars again pointed and the scales read.

Thus the distance of each of the two opposite comparison stars is measured once in each of the two opposite positions of the segments, and so also the effect of Index-error is eliminated. But such an observation is not complete, because it is non-symmetrical—a progressive change in the relative temperatures of different parts of the instrument may, as a matter of fact frequently does, create a change of scale-value which can only be eliminated by arranging the observations in symmetrical order. Therefore the same observations are repeated in the reverse order, that is to say, if the first pair be made in the order  $a\ b$ , the second pair would be in the order  $b\ a$ . The instrument having been reversed  $180^\circ$  in position-angle similar observations are made in the order  $a\ b\ b\ a$ . To complete the symmetry of the work, care was taken on the following night of observation to arrange the order  $b\ a\ a\ b$ .

The following is a copy of the form in which the observations were entered with the original record as entered by the observer.\*

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\* No. 2 has been selected because there is a misprint in No. 1, *vide* list of errata.

HELIOMETER OBSERVATIONS AT THE CAPE OF GOOD HOPE, 6 JULY 1881.

OBJECTS :  $\alpha_2$  Centauri and  $b$ .

GROUP 2. GILL.

CHRONOMETER.

h m sec.			Readings.			h m sec.			Bar.	in.	Ther.
									30.25.	°	57.0.
14.56.25	A		.603	105	1.600	.	.	I	323	.	.
	B		.880	46	1.872			II		.	.
15.0.5	A		.300	45	2.310	.	.	I		.	.
	B		.480	105	2.480			II		.	.
15.35.53	A		.623	45	2.633	.	.	I	143	.	.
	B		.810	105	2.803			II		.	.
15.41.5	A		.059	105	2.040	.	.	I		.	.
	B		.343	46	2.335			II		.	.
Images 2-3.			Steadiness 2-3.			Bar.			in.	Ther.	°
									,	,	,

OBJECTS :  $\alpha_2$  Centauri and  $a$ .

GROUP 2. GILL.

CHRONOMETER.

h m sec.			Readings.			h m sec.			Bar.	in.	Ther.
										°	
15.7.25	A		.257	38	1.245	.	.	I	323	.	.
	B		.500	113	1.503			II		.	.
										°	
15.13.55	A		.780	113	0.780	.	.	I		.	.
	B		.965	39	0.970			II		.	.
										°	
15.20.35	A		.795	113	0.783	.	.	I	143	.	.
	B		.993	39	0.991			II		.	.
										°	
15.28.15	A		.730	38	1.719	.	.	I		.	.
	B		.009	113	2.005			II		.	.
										in.	°
P. 9.50						Bar.				Ther.	59.

# HELIOMETER OBSERVATIONS AT THE CAPE OF GOOD HOPE, 6 JULY 1881.

 OBJECTS:  $\alpha_2$  Centauri and  $b$ .

GROUP 2. GILL.

CHRONOMETER.

h m sec.		Readings.			h m sec.	Bar.	in.	Ther.	°
15.46.0	A	.753	105	1.741	. . I	143	.	.	.
	B	.039	46	2.029		II	.	.	.
15.50.55	A	.891	45	2.900	. . I	.	.	.	.
	B	.090	105	3.087		II	.	.	.
16.28.35	A	.560	45	2.563	. . I	323	.	.	.
	B	.750	105	2.740		II	.	.	.
16.35.40	A	.040	105	2.040	. . I	.	.	.	.
	B	.294	46	2.279		II	.	.	.
						Bar.	in.	Ther.	°

 OBJECTS:  $\alpha_2$  Centauri and  $a$ .

GROUP 2. GILL.

CHRONOMETER.

h m sec.		Readings.			h m sec.	Bar.	in.	Ther.	°
15.57.17	A	.461	38	1.442	. . I	143	.	.	.
	B	.718	113	1.717		II	.	.	.
16. 4.37	A	.010	113	0.995	. . I	.	.	.	.
	B	.210	39	1.211		II	.	.	.
16.15.0	A	.702	113	0.685	. . I	323	.	.	.
	B	.880	39	0.883		II	.	.	.
16.21.25	A	.540	38	1.527	. . I	.	.	.	.
	B	.814	113	1.814		II	.	.	.
						Bar.	in.	Ther.	°
						Bar. 30.24.	Ther. 59.5.		

The times entered are those of the Sidereal Chronometer employed. In the block of "Readings" the left-hand column gives the reading of the scale division on the further side of the pointer from the micrometer head, the webs approach the head with increased readings of the head.

The middle column gives the division which is read on the side of the pointer next the micrometer head, and the right-hand column the micrometer reading on the named division.

The scale readings increase as the micrometer readings decrease; therefore, if we refer the scale readings to the zero of the micrometer, it is clear that were there no index-error, no error of Run, and no error of the micrometer-screw, the true reading for scale A. would be 105 divisions = 210 revolutions + 1.600 revolutions. But if we suppose for the moment that the division-errors are insensible, the error of Run on scale A. is  $\cdot 603 - \cdot 600 = +0.003$  rev. over two revolutions, or  $+0.0015$  per revolution; because if the pointings were exact, and there were no division-error, both readings should agree or rather should differ exactly 2 rev. But since there are accidental errors of pointing in reading the micrometer scales, it is better to deduce the Run from all the scale readings made in the same complete observation, and this is accordingly done. In the example in question we have the following differences in order:—

Scale A.	Corr. for Screw-error.*	Scale B.	Corr. for Screw-error.
r + 0.003 — 0.010 — 0.010 + 0.019 + 0.012 + 0.000 + 0.012 + 0.011 + 0.012 — 0.009 — 0.003 + 0.000 + 0.019 + 0.015 + 0.017 + 0.013	r + 0.001 0.001 0.000 0.001 0.002 0.002 0.002 0.001 0.011 0.000 0.000 0.001 0.002 0.002 0.002 0.001	r + 0.008 0.000 + 0.007 — 0.008 — 0.003 — 0.005 + 0.002 + 0.004 + 0.010 + 0.003 + 0.010 + 0.015 + 0.001 — 0.001 — 0.003 0.000	r + 0.001 0.001 0.000 0.001 0.001 0.002 0.002 0.001 0.001 0.000 0.000 0.001 0.001 0.002 0.002 + 0.001
Sum + 0.101	+ 0.019	+ 0.056	+ 0.017

\* The corrections for screw-error result from a very thorough investigation of the screw made independently by Gill and Elkin, the two results being in close agreement:—

$$0.00021 \cos u - 0.00165 \sin u - 0.00017 \cos 2u + 0.00043 \sin 2u + 0.00097 n - 0.00024 n^2$$

where  $u$  is the reading of the screw-head, and  $n$  the number of revolutions from 0.00.



The sum of the 16 apparent Runs	r	
over two revolutions is thus	-	+0·101
Correction for screw-error	-	+0·019
		} Scale A.
Sum of 16 apparent Runs over		
two revolutions	-	+0·056
Correction for screw-error	-	+0·017
		} Scale B.
		<hr/>
		64)+0·193
		<hr/>
Mean correction for Run	-	+0·0030 per rev.
		<hr/>

Having thus determined the correction for Run for one revolution, the corresponding correction is to be applied to the readings. These corrections might be applied only to the reading of the division next the micrometer-head, but in this way some accuracy would be lost. It is more exact to suppose that our point of reference is the middle point between the two divisions, and to shift our reference point in imagination, one revolution farther from the micrometer-head. The reduction is then precisely the same as if we used only one division and a known Run, except that the mean of the readings of the two scales is entered instead of the reading of only one.

Tables were prepared which give the correction for screw-error applicable to the mean of the readings of the two scales with the argument "lower reading."

The computation of the distances is then effected as follows :—

Where the sign of B-A refers only to the sign of the correction for index-error.

Name and Group	-	h m				$\alpha_2$ Centauri			
Date and Time	-	1881, July 6.				15° 4' 1			
Scale	- - -	A		B		A		B	
Follg. Div. $\times 2$	-	210°		92°		90°		210°	
Mean Screw Reading	-	+ 1° 602		+ 1° 876		+ 2° 305		+ 2° 480	
Screw-error	-	+ 4		+ 4		+ 1		+ 2	
Run	- - -	+ 5		+ 6		+ 7		+ 7	
Sum	- - -	211° 611		93° 886		92° 313		212° 489	
B-A	Diff.	- 117° 725				237° 901			
	Refn.	120° 176				73			
Distance	- - -	237° 974							

Name and Group	-	h m				$\alpha_2$ Centauri			
Date and Time	-					15° 16' 5			
Scale	- - -	A		B		A		B	
Follg. Div. $\times 2$	-	76°		226°		226°		78°	
Mean Screw Reading	-	+ 1° 251		+ 1° 502		+ 0° 780		+ 0° 968	
Screw-error	-	+ 2		+ 2		+ 5		+ 4	
Run	- - -	+ 4		+ 5		+ 2		+ 3	
Sum	- - -	77° 257		227° 509		226° 787		78° 975	
B-A	Diff.	- 150° 252				298° 064			
	Refn.	147° 812				89			
Distance	- - -	298° 153							

Name and Group	-	h m				$\alpha_2$ Centauri			
Date and Time	-					15° 54' 3			
Scale	- - -	A		B		A		B	
Follg. Div. $\times 2$	-	210°		92°		90°		210°	
Mean Screw Reading	-	+ 1° 747		+ 2° 034		+ 2° 896		+ 3° 089	
Screw-error	-	+ 5		+ 2		+ 3		+ 2	
Run	- - -	+ 5		+ 6		+ 9		+ 9	
Sum	- - -	211° 757		94° 042		92° 908		213° 100	
B-A	Diff.	- 117° 715				237° 907			
	Refn.	120° 192				67			
Distance	- - -	237° 974							

Name and Group	-	h m				$\alpha_2$ Centauri			
Date and Time	-					16° 6' 8			
Scale	- - -	A		B		A		B	
Follg. Div. $\times 2$	-	76°		226°		226°		78°	
Mean Screw Reading	-	+ 1° 452		+ 1° 718		+ 1° 003		+ 1° 211	
Screw-error	-	+ 1		+ 5		+ 3		+ 2	
Run	- - -	+ 4		+ 5		+ 3		+ 4	
Sum	- - -	77° 457		227° 728		227° 009		79° 217	
B-A	Diff.	- 150° 271				298° 063			
	Refn.	147° 792				85			
Distance	- - -	298° 148							

Scale and Screw Readings.

and b.

h m  
15°44'3

2.

A	B	A	B
90° + 2°628 + 3 + 8	210° + 2°807 + 4 + 8	210° + 2°050 + 2 + 6	92° + 2°339 + 0 + 7
92°639	212°819	212°058	94°346
- 120°180 117°712		237°892 69	
237°961			

and a.

h m  
15°30'3

2.

A	B	A	B
226° + 0°789 + 5 + 2	78° + 0°992 + 3 + 3	76° + 1°725 + 5 + 5	226° + 2°007 + 2 + 6
226°796	78°998	77°735	228°015
- 147°798 150°280		298°078 88	
298°166			

and b.

h m  
16°38'0

2.

A	B	A	B
90° + 2°562 + 3 + 8	210° + 2°745 + 4 + 8	210° + 2°040 + 2 + 6	92° + 2°287 + 1 + 7
92°573	212°757	212°048	94°295
- 120°184 117°753		237°937 66	
238°003			

and a.

h m  
16°24'0

2.

A	B	A	B
226° + 0°694 + 5 + 2	78° + 0°882 + 4 + 3	76° + 1°534 + 3 + 5	226° + 1°814 + 4 + 5
226°701	78°889	77°542	227°823
-- 147°812 150°281		298°093 84	
298°177			

The correction for chronometer error on July 6, derived from comparison with the transit-clock, was  $+5.8$  m. which applied to the mean of each pair of chronometer times of observation gives the sidereal time for each pair of pointings as printed in the results.

The refraction is computed, having regard to the readings of the meteorological instruments, for each of these epochs; and being applied the result is the true observed distance free from index-error. The mean of four such determinations of each pair constitutes a complete observation for parallax. The reader who may desire to verify the refraction corrections has only to take the sum of the two distances marked  $r$ , the difference between this sum and the column marked  $R$  is the refraction. The figures in the column marked  $R$  give the distance in semi-revolutions of the micrometer-screw. In computing the effect of proper motion and aberration, and in the deduction of the parallaxes, a semi-revolution ( $R$ ) of the micrometer-screw has been taken :—

$$R = 12'' \cdot 865.$$

The mean results of these observations and all details of their subsequent discussion are given in the Memoirs of the Royal Astronomical Society, vol. *xlvi*, and need not, therefore, be repeated here. The concluded results are :—

Star.	Observer.	Parallax.	Probable Error.	Magnitude of Comparison Stars.
$\alpha_2$ Centauri - -	Gill and Elkin -	$+0''.75$	$\pm 0''.01$	7.6
Sirius - -	" " -	$+0.38$	.01	7.5
$\epsilon$ Indi - -	" " -	$+0.22$	.03	$7\frac{1}{2}$
Lacaille, 9352 -	Gill - -	$+0.28$	.02	7.6
$\alpha_2$ Eridani - -	" - -	$+0.166$	.018	6.4
$\beta$ Centauri - -	" - -	$-0.018$	.019	7
$\zeta$ Tucanæ - -	Elkin - -	$+0.06$	.019	$7\frac{1}{2}$
$\epsilon$ Eridani - -	" - -	$+0.14$	.020	6.4
Canopus - -	" - -	$+0.03$	.030	8

On the publication of these results (*loc. cit.*), I submitted to the Lords Commissioners of the Admiralty a proposal to acquire a new Heliometer, of seven inches aperture, for the observatory to continue the work on stellar parallax thus begun, and to determine the Solar Parallax by observations of Minor Planets. Their Lordships responded favourably to this appeal. The instrument was ordered from Messrs. Repsold and Söhne of

Hamburg in 1884, was completed early in 1887, slightly modified in a few details after inspection by me in Hamburg, and was erected, and at work at the Cape before the end of the same year. This instrument has in every respect fulfilled the high expectations which I had formed of its powers, and the results already obtained, and which will shortly be published, will, I trust, be found to have amply justified the liberality of the Lords Commissioners of the Admiralty.

DAVID GILL.

Royal Observatory,  
Cape of Good Hope,  
1893, January 13.



# HELIOMETER OBSERVATIONS.





**MR. GILL'S OBSERVATIONS.**

$\alpha_2$ Centauri.					188k, July 5.				
$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
15	33 <sup>7</sup>	150 <sup>2</sup> 74	147 <sup>7</sup> 90	298 <sup>1</sup> 153	15	51 <sup>0</sup>	117 <sup>7</sup> 16	120 <sup>1</sup> 86	237 <sup>9</sup> 71
16	24 <sup>2</sup>	147 <sup>8</sup> 20	150 <sup>2</sup> 71	298 <sup>0</sup> 91	16	6 <sup>6</sup>	120 <sup>1</sup> 67	117 <sup>7</sup> 33	237 <sup>9</sup> 69
16	38 <sup>5</sup>	150 <sup>2</sup> 64	147 <sup>8</sup> 14	298 <sup>1</sup> 164	16	56 <sup>0</sup>	117 <sup>7</sup> 29	120 <sup>1</sup> 78	237 <sup>9</sup> 76
17	22 <sup>1</sup>	147 <sup>8</sup> 23	150 <sup>2</sup> 71	298 <sup>1</sup> 182	17	8 <sup>9</sup>	120 <sup>1</sup> 185	117 <sup>7</sup> 16	237 <sup>9</sup> 70
in									
Bar. 30 <sup>42</sup> .					Ther. 49 <sup>8</sup> .				
Run + 2 <sup>4</sup> .					Images 2-3.				
					Steadiness 3.				

$\alpha_2$ Centauri.					1881, July 6.				
$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
15	4 <sup>1</sup>	117 <sup>7</sup> 725	120 <sup>1</sup> 176	237 <sup>9</sup> 974	15	16 <sup>5</sup>	150 <sup>2</sup> 252	147 <sup>8</sup> 812	298 <sup>1</sup> 153
15	44 <sup>3</sup>	120 <sup>1</sup> 180	117 <sup>7</sup> 712	237 <sup>9</sup> 961	15	30 <sup>3</sup>	147 <sup>7</sup> 798	150 <sup>2</sup> 280	298 <sup>1</sup> 166
15	54 <sup>3</sup>	117 <sup>7</sup> 715	120 <sup>1</sup> 192	237 <sup>9</sup> 974	16	6 <sup>8</sup>	150 <sup>2</sup> 271	147 <sup>7</sup> 792	298 <sup>1</sup> 148
16	38 <sup>0</sup>	120 <sup>1</sup> 184	117 <sup>7</sup> 753	238 <sup>0</sup> 003	16	24 <sup>0</sup>	147 <sup>8</sup> 812	150 <sup>2</sup> 281	298 <sup>1</sup> 177
in									
Bar. 30 <sup>2</sup> 25.		Ther. 58 <sup>5</sup> .		Run + 3 <sup>0</sup> .		Images 2-3.		Steadiness 2-3.	

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
23	50.3	244.659	242.214	487.545	0	2.7	250.966	253.466	505.089
0	37.9	242.346	244.797	487.534	0	19.1	253.549	251.043	505.125
Bar. $30^{\circ} 22$ . Ther. $54^{\circ} 2$ . Run + 5.0. Images 3-4. Steadiness 3-4.									

$\alpha_2$ Centauri.					1881, July 7.				
$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
17	3 <sup>6</sup>	147 <sup>8</sup> 12	150 <sup>2</sup> 99	298 <sup>1</sup> 95	17	19 <sup>7</sup>	120 <sup>2</sup> 10	117 <sup>7</sup> 41	238 <sup>0</sup> 20
18	10 <sup>5</sup>	150 <sup>2</sup> 78	147 <sup>8</sup> 30	298 <sup>2</sup> 26	17	59 <sup>5</sup>	117 <sup>7</sup> 43	120 <sup>2</sup> 10	238 <sup>0</sup> 27
18	21 <sup>3</sup>	147 <sup>8</sup> 08	150 <sup>2</sup> 48	298 <sup>1</sup> 59	18	31 <sup>6</sup>	120 <sup>1</sup> 88	117 <sup>7</sup> 35	238 <sup>0</sup> 08
20	4 <sup>4</sup>	150 <sup>1</sup> 96	147 <sup>7</sup> 52	298 <sup>1</sup> 60	19	51 <sup>0</sup>	117 <sup>6</sup> 91	120 <sup>1</sup> 54	237 <sup>9</sup> 89
in									
Bar. 30 <sup>0</sup> 30.		Ther. 56 <sup>0</sup> 4.		Run + 3 <sup>1</sup> .	Images 3.		Steadiness 3.		

$\alpha_2$  Centauri.

1881, July 8.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
17	12.7	120.198	117.736	238.003	17	26.0	147.834	150.264	298.187
17	57.3	117.731	120.185	237.992	17	38.6	150.270	147.802	298.163
18	8.9	120.191	117.721	237.994	18	30.1	147.802	150.286	298.198
18	57.0	117.690	120.180	237.970	18	45.4	150.231	147.776	298.127

Bar. 30.38. Ther. 49.0. Run + 3.7. Images 3. Steadiness 3.

 $\epsilon$  Indi.

1881, July 8.

$\alpha$				$\beta$				
h	m	r	R	h	m	r	R	
19	18.7	84.035	81.593	19	32.2	101.447	103.899	205.430
19	58.8	81.605	84.044	19	46.9	103.919	101.459	205.456
20	9.4	84.062	81.610	20	25.1	101.469	103.920	205.458
20	54.4	81.602	84.081	20	42.6	103.922	101.465	205.454

Bar. 30.35. Ther. 48.0. Run + 4.2. Images 1-2 & 2. Steadiness 1-2 & 2.

 $\alpha_2$  Centauri.

1881, July 11.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
15	49° 0	147° 782	150° 263	298° 133	15	58° 1	120° 184	117° 739	237° 992
16	16° 4	150° 251	147° 789	298° 126	16	7° 0	117° 705	120° 191	237° 965
17	7° 5	147° 785	150° 262	298° 134	17	18° 3	120° 188	117° 699	237° 958
17	34° 8	150° 266	147° 803	298° 159	17	26° 5	117° 743	120° 181	237° 995

Bar. 30.57. Ther. 49.7. Run + 3.5. Images 1-2. Steadiness 2 & 1-2.

 $\beta$  Centauri.

1881, July 11.

$\gamma$				
h	m	r	r	R
16	31.9	35.715	38.176	73.916
16	47.3	38.192	35.719	73.937

Bar. 30.56. Ther. 59.0. Run + 5.3. Images 1-2. Steadiness 1-2.

 $\alpha_2$  Eridani.

1881, July 11.

$\beta$					$\alpha$				
h	m	r		R	h	m	r		R
23	38.1	250.751	253.281	505.027	23	54.5	244.595	242.173	487.420
0	26.1	253.476	251.040	505.033	0	10.5	242.189	244.729	487.448
0	37.3	251.064	253.552	505.074	0	51.2	244.775	242.323	487.453
1	19.4	253.623	251.132	505.076	1	5.6	242.349	244.814	487.483

Bar. 30.57. Ther. 47.9. Run + 2.9. Images 3 & 2-3. Steadiness 3-4 & 3.

$\alpha_2$  Centauri.

1881, July 12.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
17	32.9	120.219	117.696	237.988	17	49.0	147.774	150.262	298.131
18	21.9	117.717	120.201	238.003	18	8.2	150.262	147.769	298.133
19	6.8	120.194	117.685	237.986	19	15.7	147.763	150.237	298.148
19	46.8	117.666	120.171	237.982	19	33.4	150.263	147.730	298.162
in									
Bar. 30.50.					Ther. 42.2.				
					Run + 3.6.				

 $\beta$  Centauri.

1881, July 12.

$\gamma$				
h	m	r	r	R
18	58.8	38.187	35.695	73.932
18	51.7	35.695	38.187	73.938
in				
Bar. 30.50.				
Ther. 41.0.				
Run + 2.5.				

 $\alpha_2$  Eridani.

1881, July 14.

$\alpha$					$\beta$				
h	m	r	R		h	m	r	R	
0	27.5	242.261	244.821	487.521	0	41.8	253.571	251.096	505.096
1	7.6	244.839	242.313	487.464	0	56.1	251.049	253.564	504.991
1	18.3	242.371	244.855	487.515	1	29.2	253.634	251.153	505.085
1	49.8	244.853	242.330	487.421	1	42.5	251.115	253.645	505.035
in									
Bar. 30.45.					Ther. 51.1.				
					Run + 3.3.				

 $\alpha_2$  Eridani.

1881, July 15.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
0	4.4	253.503	250.847	0	18.0	242.141	244.815
0	47.8	250.951	253.662	0	36.8	244.871	242.185
0	58.6	253.713	250.985	1	10.5	242.244	244.907
1	35.3	251.057	253.705	1	22.9	244.926	242.266
in							
Bar. 30.25.				Ther. 42.5.			
				Run + 4.1.			

 $\alpha_2$  Centauri.

1881, July 16.

$\beta_1$				$\alpha_1$					
h	m	r	R	h	m	r	R		
15	48.8	213.557	210.975	424.659	16	6.1	232.322	234.889	467.359
16	41.5	210.949	213.521	424.618	16	22.6	234.902	232.312	467.369
16	55.5	213.557	210.962	424.674	17	11.8	232.299	234.844	467.330
17	37.0	210.922	213.494	424.600	17	24.9	234.872	232.292	467.363
in									
Bar. 29.99.				Ther. 57.5.				Run + 3.4.	

$\alpha_2$  Centauri.

1881, July 19.

$\alpha$				$\beta$							
h	m	r	R	h	m	r	R				
15	46.1	147.646	150.390	15	58.9	120.320	117.605	237.995			
16	28.2	150.391	147.666	16	15.6	117.597	120.323	237.989			
17	13.3	147.652	150.392	17	26.8	120.311	117.603	237.985			
17	48.7	150.383	147.643	17	38.8	117.575	120.310	237.958			
in											
Bar. 30.32.				Ther. 39.8.				Run + 4.9.			

Bar. 30.32.

Ther. 39.8.

Run + 4.9.

 $\beta$  Centauri.

1881, July 19.

$\gamma$			
h	m	r	R
16	44.4	35.588	38.297
16	54.4	38.311	35.579

Bar. 30.32.

Ther. 42.0.

Run + 4.3.

 $\alpha_2$  Eridani.

1881, July 19.

$\alpha$				$\beta$							
h	m	r	R	h	m	r	R				
0	1.8	242.062	244.788	0	17.9	253.580	250.918	505.069			
0	48.0	244.921	242.198	0	37.6	250.949	253.678	505.055			
0	59.6	242.210	244.910	1	14.3	253.726	251.000	505.062			
1	47.0	244.957	242.263	1	32.4	251.014	253.733	505.046			
in				°							
Bar. 30.22.				Ther. 37.7.				Run + 4.6.			

Bar. 30.22.

Ther. 37.7.

Run + 4.6.

 $\alpha_2$  Centauri.

1881, July 20.

$\alpha_1$				$\beta_1$				
h	m	r	R	h	m	r	R	
16	36.2	234.895	232.248	16	51.2	210.878	213.572	424.609
17	16.6	232.198	234.899	17	4.0	213.584	210.881	424.632
17	32.3	234.867	232.218	17	44.0	210.879	213.580	424.657
18	12.4	232.168	234.867	17	59.3	213.554	210.867	424.633
in								
Bar. 30.00.				Ther. 41° 8.				
				Run + 3.1.				

Bar. 30.09.

Ther. 41.8.

Run + 3.1.

 $\alpha_2$  Centauri.

1881, July 24.

$\beta_1$				$\alpha_1$							
h	m	r	R	h	m	r	R				
16	29.4	210.913	213.578	16	44.2	234.906	232.193	467.272			
17	7.2	213.606	210.890	16	58.7	232.215	234.894	467.292			
17	16.1	210.872	213.560	17	29.0	234.882	232.209	467.300			
17	54.0	213.558	210.884	17	39.8	232.196	234.858	467.274			
in											
Bar. 30.42.				Ther. 51.8.				Run + 4.0.			

Bar. 30.42.

Ther. 51.8.

Run + 4.0.

$\alpha_2$  Centauri.

1881, July 25.

$\alpha_1$					$\beta_1$				
h	m	r	r	R	h	m	r	r	R
16	6.8	234.897	232.211	467.260	16	19.2	210.916	213.585	424.642
16	46.4	232.202	234.880	467.255	16	34.4	213.610	210.886	424.644
16	54.8	234.897	232.204	467.280	17	6.3	210.872	213.609	424.647
17	34.4	232.180	234.870	467.263	17	19.8	213.586	210.889	424.651
in									
Bar. 30.48.					Ther. 53.5.				
					Run + 4.1.				

 $\alpha_2$  Eridani.

1881, July 25.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
0	22.0	253.573	250.890	0	38.0	242.157	244.856
1	2.5	250.957	253.658	0	51.3	244.862	242.185
1	13.6	253.704	250.985	1	29.0	242.219	244.910
1	53.2	251.009	253.715	1	44.3	244.940	242.247
in							
Bar. 30.43.				Ther. 53.5.			
				Run + 4.2.			

 $\alpha_2$  Eridani.

1881, July 26.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
0	32.5	244.831	242.277	0	46.8	250.920	253.638
1	15.5	242.189	244.879	1	3.9	253.660	250.991
1	27.2	244.903	242.240	1	37.6	251.016	253.683
2	2.4	242.252	244.946	1	49.9	253.684	251.034
in							
Bar. 30.25.				Ther. 43.0.			
				Run + 3.9.			

 $\alpha_2$  Centauri.

1881, July 27.

$\beta_1$					$\alpha_1$				
h	m	r	r	R	h	m	r	r	R
17	15.1	213.554	210.878	424.601	17	32.1	232.155	234.840	467.201
18	1.8	210.850	213.482	424.539	17	46.8	234.835	232.191	467.247
18	14.3	213.533	210.831	424.584	18	28.3	232.130	234.858	467.260
19	2.9	210.831	213.491	424.601	18	49.6	234.791	232.066	467.162
in									
Bar. 30.15.					Ther. 59.0.				
					Run + 3.9.				

 $\alpha_2$  Centauri.

1881, July 28.

$\alpha_1$					$\beta_1$				
h	m	r	r	R	h	m	r	r	R
16	33.9	234.875	232.204	467.245	16	46.6	210.874	213.562	424.591
17	9.9	232.200	234.862	467.253	16	59.1	213.509	210.863	424.533
17	37.8	234.807	232.143	467.167	17	47.0	210.866	213.516	424.579
18	8.1	232.207	234.814	467.273	17	55.9	213.499	210.881	424.586
in									
Bar. 30.21.					Ther. 49.9.				
					Run + 3.7.				

$\alpha_2$  Eridani.

1881, July 28.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
0	33.1	250.910	253.594	0	47.4	244.818	242.180
1	10.6	253.669	250.990	1	0.6	242.198	244.864
1	20.4	251.012	253.650	1	31.7	244.872	242.216
1	53.9	253.674	251.038	1	44.4	242.217	244.901
in							
Bar. 30.24.				Ther. 48.1.			
				Run + 5.2.			

 $\alpha_2$  Centauri.

1881, July 29.

$\beta_1$				$\alpha_1$			
h	m	r	R	h	m	r	R
16	32.5	213.547	210.909	16	42.1	232.194	234.841
17	2.1	210.906	213.541	16	51.7	234.891	232.177
17	12.1	213.540	210.897	17	22.3	232.167	234.834
17	41.9	210.863	213.550	17	32.1	234.861	232.186
in							
Bar. 30.26.				Ther. 53.8.			
				Run + 4.3.			

 $\alpha_2$  Centauri.

1881, August 28.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
17	19.1	117.688	120.228	17	33.7	150.258	147.711
18	7.4	120.242	117.698	17	55.3	147.723	150.228
18	23.4	117.694	120.197	18	36.9	150.241	147.707
19	10.7	120.229	117.689	18	54.2	147.715	150.218
in							
Bar. 30.34.				Ther. 56.0.			
				Run + 3.3.			

 $\alpha_2$  Centauri.

1881, August 29.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
17	30.1	150.219	147.719	17	39.2	117.703	120.230
18	0.7	147.728	150.226	17	51.5	120.191	117.738
18	12.2	150.213	147.721	18	23.5	117.701	120.227
18	45.7	147.706	150.212	18	33.4	120.200	117.700
in							
Bar. 30.33.				Ther. 57.8.			
				Run + 4.2.			

## Sirius.

1881, August 29.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
2	20.6	144.380	141.886	2	33.3	139.713	142.233
3	0.5	141.879	144.385	2	47.9	142.232	139.735
3	12.3	144.363	141.884	3	25.3	139.748	142.222
3	49.3	141.870	144.385	3	36.9	142.224	139.713
in							
Bar. 30.28.				Ther. 50.4.			
				Run + 4.5.			

$\alpha_2$  Centauri.

1881, August 20.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
17	36.2	117.714	120.194	237.978	17	46.3	150.242	147.702	298.035
18	6.6	120.225	117.708	238.010	17	57.0	147.732	150.204	298.040
18	47.1	117.679	120.215	237.987	18	57.1	150.194	147.718	298.039
in									
Bar. 30.34.					Ther. 55.6.				
					Run + 4.4.				

 $\beta$  Centauri.

1881, August 30.

$\gamma$				
h	m	r		R
18	22.8	35.698	38.171	73.911
18	33.1	38.136	35.683	73.868

 $\epsilon$  Indi.

1881, August 31.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
1	45.0	101.358	103.882	205.347	1	56.9	84.039	81.556	165.693
2	24.4	103.874	101.376	205.386	2	10.5	81.581	84.054	165.741
2	39.8	101.375	103.903	205.428	2	51.5	84.011	81.547	165.691
3	19.9	103.840	101.348	205.386	3	5.5	81.525	84.006	165.676
in									
Bar. 30.10.					Ther. 52.2.				
					Run + 5.3.				

 $\alpha_2$  Centauri.

1881, September 3.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
18	10.4	150.238	147.731	298.070	18	17.8	117.715	120.217	238.013
18	34.2	147.702	150.210	298.025	18	26.5	120.209	117.710	238.003
19	5.8	147.702	150.193	298.030	19	12.6	120.217	117.690	238.017
19	27.9	150.188	147.708	298.055	19	20.0	117.678	120.196	237.990
in									
Bar. 30.24.				Ther. 47.3.	Run + 3.7.				

 $\beta$  Centauri.

1881, September 3.

$\gamma$				
h	m			R
18	46.2	38.188	35.680	73.921
18	55.0	35.676	38.180	73.912
in				
Bar. 30.24.		Ther. 47.0.		Run + 5.4.

ε Indi.

1881, September 3.

α				β			
h	m	r	R	h	m	r	R
22	8.4	81.606	84.059	22	23.0	103.924	101.415
22	50.0	84.096	81.585	22	36.0	101.415	103.896
23	1.9	81.586	84.071	23	10.6	103.905	101.407
23	34.6	84.091	81.591	23	27.9	101.385	103.903
in							
Bar. 30.21.				Ther. 49.3.			
				Run + 3.9.			

Sirius.

1881, September 5.

β				α			
h	m	r	R	h	m	r	R
2	36.8	139.714	142.251	2	51.1	144.378	141.874
3	11.4	142.234	139.727	3	0.7	141.870	144.374
3	19.1	139.733	142.227	3	28.4	144.404	141.873
3	57.3	142.240	139.725	3	43.2	141.869	144.397
in							
Bar. 30.21.				Ther. 45.2.			
				Run + 4.5.			

ε Indi.

1881, September 6.

β				α			
h	m	r	R	h	m	r	R
2	16.0	103.869	101.373	2	33.1	81.534	84.033
3	4.2	101.394	103.855	2	50.7	84.052	81.527
3	17.3	103.859	101.340	3	32.4	81.504	84.019
4	1.1	101.273	103.838	3	43.0	84.013	81.494
in							
Bar. 30.38.				Ther. 42.2.			
				Run + 5.5.			

α<sub>2</sub> Centauri.

1881, September 7.

β				α			
h	m	r	R	h	m	r	R
18	28.2	120.222	117.682	18	38.4	147.718	150.255
18	59.5	117.716	120.207	18	50.5	150.199	147.727
19	38.7	117.706	120.210	19	48.4	150.178	147.680
20	13.6	120.185	117.655	19	59.8	147.661	150.189
in							
Bar. 30.42.				Ther. 54.8.			
				Run + 3.1.			

β Centauri.

1881, September 7.

γ			
h	m	r	R
19	10.1	35.701	38.189
19	24.8	38.147	35.688
			73.951
			73.903



ε Indi.

1881, September 7.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
22	10.0	81.582	84.089	22	19.6	103.909	101.395
22	46.3	84.096	81.577	22	33.9	101.388	103.910
22	56.9	81.558	84.102	23	8.1	103.914	101.390
23	28.2	84.078	81.600	23	18.2	101.414	103.913
in							
Bar. 30.42.				Ther. 55.3.			
				Run + 6.5.			

 α<sub>2</sub> Centauri.

1881, September 10.

$\alpha_1$					$\beta_1$				
h	m	r	r	R	h	m	r	r	R
17	57.0	234.731	232.305	467.270	18	13.3	210.953	213.424	424.597
18	38.8	232.249	234.716	467.255	18	27.2	213.456	210.958	424.649
18	49.3	234.730	232.278	467.314	19	3.5	210.915	213.416	424.612
19	24.0	232.210	234.636	467.217	19	16.2	213.416	210.957	424.673
in									
Bar. 30.18.					Ther. 57.0.				
					Run + 2.7.				

ε Indi.

1881, September 10.

β				α					
h	m	r	R	h	m	r	R		
22	19.8	103.887	101.418	205.363	22	29.3	81.615	84.069	165.732
23	0.3	101.403	103.859	205.321	22	41.0	84.055	81.602	165.706
23	15.3	103.918	101.399	205.378	23	29.4	81.618	84.067	165.738
23	55.8	101.420	103.914	205.401	23	43.1	84.060	81.632	165.747
in									
Bar. 30.17.				Ther. 53.3.				Run + 4.4.	

 α<sub>2</sub> Centauri.

1881, September 13.

α				β					
h	m	r	R	h	m	r	R		
17	57.1	150.219	147.746	298.060	18	9.6	117.736	120.221	238.036
18	29.9	147.732	150.223	298.064	18	21.1	120.200	117.739	238.021
18	42.2	150.208	147.724	298.049	18	54.9	117.718	120.219	238.035
19	18.8	147.720	150.234	298.102	19	4.7	120.206	117.708	238.018
in									
Bar. 30.30.				Ther. 49.3.				Run + 2.1.	

ε Indi.

1881, September 13.

β					α				
h	m	r	r	R	h	m	r	r	R
22	30.1	101.401	103.895	205.356	22	47.8	84.061	81.598	165.710
23	12.0	103.907	101.422	205.391	22	59.8	81.586	84.052	165.689
23	24.3	101.384	103.891	205.338	23	41.4	84.051	81.586	165.693
0	5.5	103.899	101.430	205.400	23	55.0	81.596	84.057	165.712
in									
Bar. 30.35.					Ther. 45.2.				
					Run + 5.1.				

## Lacaille 9352.

1881, September 14.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
1	48.2	266.384	263.866	1	52.2	170.044	172.533
2	23.9	263.860	266.325	2	7.4	172.531	170.040
2	36.3	266.325	263.862	2	49.1	170.055	172.518
3	17.2	263.837	266.320	3	1.7	172.536	170.016
in							
Bar. 30.44.				Ther. 49.0.			
				Run + 5.9.			

## Sirius.

1881, September 14.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
3	46.3	144.393	141.891	3	57.6	139.728	142.233
4	22.9	141.896	144.388	4	9.8	142.222	139.743
4	32.4	144.380	141.920	4	45.6	139.735	142.232
5	9.2	141.888	144.378	4	58.6	142.223	139.742
in							
Bar. 30.39.				Ther. 49.5.			
				Run + 2.4.			

 $\alpha_2$  Centauri.

1881, September 20.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
18	26.6	117.766	120.185	238.034	18	37.4	150.188	147.719	298.019
19	2.6	120.179	117.726	238.006	18	51.1	147.740	150.186	298.047
19	12.8	117.736	120.194	238.038	19	22.4	150.168	147.695	298.013
19	44.9	120.183	117.736	238.056	19	34.9	147.715	150.153	298.033
in									
Bar. 30.32.					Ther. 58.0.				
					Run + 4.1.				

 $\epsilon$  Indi.

1881, September 20.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
20	16.2	81.607	84.063	20	29.2	103.855	101.427
20	56.4	84.082	81.627	20	43.6	101.417	103.843
21	7.3	81.604	84.061	21	19.8	103.880	101.425
21	41.0	84.055	81.635	21	32.4	101.424	103.868
in							
Bar. 30.33.				Ther. 56.0.			
				Run + 5.0.			

## Sirius.

1881, September 20.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
3	1.6	142.230	139.718	282.028	3	9.9	141.890	144.386	286.369
3	30.7	139.709	142.247	282.036	3	19.6	144.413	141.867	286.371
3	40.8	142.247	139.710	282.037	3	49.7	141.867	144.420	286.384
4	8.8	139.713	142.245	282.037	3	59.0	144.394	141.874	286.363
in									
Bar. 30.32.					Ther. 54.7.				

ε Indi.

1881, September 21.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
23	8.7	101.385	103.909	205.354	23	20.3	84.106	81.585	165.743
23	46.3	103.913	101.392	205.370	23	34.0	81.570	84.087	165.711
23	58.2	101.380	103.927	205.374	0	10.5	84.113	81.601	165.776
0	36.6	103.914	101.392	205.382	0	23.2	81.577	84.077	165.717
in									
Bar. 30.29.					Ther. 58.0.				
					Run + 4.0.				

 α<sub>2</sub> Centauri.

1881, September 23.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
18	51.5	147.663	150.227	19	8.5	120.210	117.703
19	40.6	150.203	147.649	19	26.5	117.706	120.182
in							
Bar. 30.27.				Ther. 59.0.			
				Run + 4.8.			

Sirius.

1881, September 23.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
3	47.7	141.869	144.375	286.330	3	56.5	142.249	139.728	282.055
4	16.4	144.391	141.871	286.346	4	6.5	139.708	142.231	282.017
4	44.7	141.885	144.415	286.382	4	35.0	142.256	139.699	282.034
5	1.0	144.395	141.900	286.376	4	49.9	139.724	142.204	282.007
in									
Bar. 30.24.				Ther. 57.5.				Run + 1.7.	

ε Indi.

1881, September 24.

α				β			
h	m	r	R	h	m	r	R
23	56.0	81.632	84.086	0	7.4	103.924	101.440
0	35.8	84.074	81.603	0	21.2	101.447	103.896
0	45.1	81.612	84.042	0	55.4	103.900	101.402
1	23.7	84.093	81.585	1	9.4	101.415	103.880
in							
Bar. 30.20.				Ther. 56.7.			
				Run + 4.0.			

 α<sub>2</sub> Centauri.

1881, September 26.

α					β				
h	m	r	r	R	h	m	r	r	R
19	1.2	147.716	150.199	298.043	19	8.4	120.190	117.711	238.006
19	29.9	150.215	147.721	298.095	19	28.9	117.730	120.197	238.049
19	38.5	147.704	150.164	298.037	19	47.8	120.194	117.713	238.048
20	6.3	150.151	147.713	298.080	20	8.5	117.699	120.182	238.049
in									
Bar. 30.13.					Ther. 53.2.				
					Run + 4.9.				

## Sirius.

1881, September 27.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
3	16.5	139.749	142.221	282.049	3	26.8	144.382	141.906	286.376
3	49.2	142.260	139.733	282.072	3	37.7	141.905	144.404	286.396
4	2.8	139.722	142.234	282.034	4	16.3	144.412	141.907	286.402
4	41.1	142.240	139.745	282.064	4	27.9	141.909	144.404	286.394
in									
Bar. 30.10.				Ther. 57.7.				Run + 3.2.	

## Sirius.

1881, September 30.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
3	48.0	144.403	141.886	286.375	3	59.2	139.742	142.212	282.033
4	28.6	141.847	144.398	286.328	4	12.1	142.209	139.722	282.010
in									
Bar. 30.10.				Ther. 54.0.					
				Run + 3.1.					

 $\alpha_2$  Centauri.

1881, October 4.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
19	25.4	117.697	120.186	237.998	19	34.5	150.159	147.700	298.021
20	1.3	120.173	117.700	238.029	19	55.6	147.695	150.171	298.042
20	10.6	117.669	120.151	237.989	20	21.5	150.163	147.676	298.084
20	42.1	120.101	117.656	237.985	20	31.1	147.627	150.119	298.014
in									
Bar. 30.07.				Ther. 61.3.				Run + 3.4.	

## Sirius.

1881, October 4.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
4	1.2	142.240	139.721	282.039	4	9.8	141.876	144.384	286.344
4	41.0	139.745	142.227	282.051	4	22.8	144.388	141.889	286.360
4	50.0	142.233	139.731	282.043	5	0.6	141.887	144.397	286.364
5	26.6	142.250	139.757	282.077	5	12.8	141.908	144.400	286.388
in									
Bar. 30.03.					Ther. 55.0.				
					Run + 2.9.				

 $\alpha_2$  Centauri.

1881, October 6.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
21	4.9	147.583	150.110	298.080	21	15.1	120.109	117.618	238.050
21	37.4	150.025	147.519	298.097	21	27.0	117.603	120.078	238.048
21	45.5	147.495	149.930	298.033	21	52.4	119.975	117.526	237.986
22	22.5	149.802	147.290	298.029	22	7.0	117.472	119.951	237.993

## Lacaille 9352.

1881, October 6.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
1	22.9	170.010	172.550	342.668	1	50.1	266.409	263.901	530.515
2	23.9	172.533	170.034	342.709	2	11.0	263.845	266.367	530.432

 $\alpha_2$  Centauri.

1881, October 7.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
19	39 <sup>1</sup>	117 <sup>1</sup> 683	120 <sup>1</sup> 190	238 <sup>1</sup> 004	19	49 <sup>1</sup>	150 <sup>1</sup> 165	147 <sup>1</sup> 674	298 <sup>1</sup> 023
20	8 <sup>3</sup>	120 <sup>1</sup> 187	117 <sup>1</sup> 691	238 <sup>1</sup> 045	19	59 <sup>0</sup>	147 <sup>1</sup> 691	150 <sup>1</sup> 158	298 <sup>1</sup> 050
20	15 <sup>7</sup>	117 <sup>1</sup> 687	120 <sup>1</sup> 166	238 <sup>1</sup> 032	20	22 <sup>6</sup>	150 <sup>1</sup> 143	147 <sup>1</sup> 679	298 <sup>1</sup> 072
20	43 <sup>2</sup>	120 <sup>1</sup> 154	117 <sup>1</sup> 652	238 <sup>1</sup> 039	20	34 <sup>6</sup>	147 <sup>1</sup> 642	150 <sup>1</sup> 114	298 <sup>1</sup> 038

 in  
Bar. 30.25.

Ther. 58.0.

Run + 3.0.

## Sirius.

1881, October 8.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
4	48.1	139.753	142.247	282.080	5	1.4	144.422	141.915	286.419
5	34.1	142.232	139.732	282.046	5	18.4	141.928	144.408	286.418
5	44.1	139.738	142.239	282.059	5	54.9	144.401	141.891	286.375
6	11.9	142.240	139.763	282.086	6	4.2	141.931	144.406	286.420

 in  
Bar. 30.17.

Ther. 50.5.

Run + 3.0.

 $\epsilon$  Indi.

1881, October 10.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
0	20.3	101.389	103.890	205.353	0	33.8	84.097	81.602	165.767
0	52.4	103.906	101.397	205.386	0	43.8	81.595	84.072	165.738
0	59.2	101.393	103.860	205.338	1	7.4	84.078	81.580	165.736
1	25.5	103.887	101.378	205.362	1	16.4	81.580	84.069	165.731

 in  
Bar. 30.32.

Ther. 49.7.

Run + 4.1.

 $\alpha_2$  Centauri.

1881, October 12.

$\alpha$					$\beta$				
h	m	r	r	r	h	m	r	r	r
20	6.9	150.155	147.671	298.041	20	16.4	117.678	120.164	238.022
20	38.1	147.640	150.070	298.001	20	27.1	120.139	117.691	238.029
20	49.6	150.086	147.608	298.021	21	4.0	117.681	120.112	238.080
21	22.7	147.592	150.024	298.084	21	14.5	120.102	117.626	238.048

 in  
Bar. 30.25.

Ther. 59.3.

Run + 2.7.

ε Indi.

1881, October 12.

$\alpha$					$\beta$				
h	m	r	R		h	m	r	R	
23	27.6	84.082	81.626	165.761	23	38.7	101.420	103.883	205.368
23	59.4	81.629	84.088	165.778	23	51.1	103.898	101.423	205.387
0	7.8	84.054	81.621	165.735	0	17.0	101.413	103.858	205.343
0	39.5	81.608	84.078	165.754	0	28.6	103.886	101.404	205.364

Bar. 30.25. Ther. 57.2. Run + 3.6. Images 1-2. Steadiness 1-2.

ε Indi.

1881, October 13.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
0	57.9	101.413	103.868	205.362	1	9.2	84.043	81.625	165.744
1	39.2	103.859	101.404	205.364	1	24.8	81.619	84.055	165.756
1	54.4	101.395	103.868	205.374	2	10.4	84.033	81.625	165.761
2	34.1	103.850	101.385	205.377	2	22.0	81.591	84.012	165.714

Bar. 30.12. Ther. 64.7. Run + 4.5.

Lacaille 9352.

1881, October 16.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
1	0.2	172.511	170.076	342.698	1	10.1	263.960	266.394	530.533
1	38.2	170.088	172.531	342.739	1	24.6	266.395	263.964	530.545
1	49.0	172.528	170.036	342.688	2	0.5	263.917	266.401	530.527
2	19.8	170.061	172.498	342.697	2	11.3	266.366	263.921	530.503

Bar. 30.09. Ther. 59.2. Run + 3.3.

Sirius.

1881, October 16.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
2	44.1	144.351	141.953	286.400	2	54.6	139.762	142.180	282.021
3	16.1	141.906	144.382	286.377	3	6.0	142.201	139.736	282.016
3	23.9	144.363	141.912	286.363	3	34.2	139.738	142.205	282.022
3	55.8	141.916	144.345	286.346	3	45.0	142.190	139.765	282.034

Bar. 30.07. Ther. 59.2. Run + 3.2.

Sirius.

1881, October 19.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
4	4.5	142.191	139.769	282.038	4	13.1	141.925	144.371	286.379
4	32.7	139.748	142.196	282.023	4	22.7	144.375	141.937	286.394
4	46.1	142.200	139.771	282.050	4	57.2	141.920	144.375	286.375
5	14.4	139.749	142.207	282.035	5	5.3	144.375	141.935	286.390

Bar. 30.21. Ther. 60.5. Run + 2.3. Images 1-2. Steadiness 1-2.

$\alpha_2$  Centauri.

1881, October 28.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
21	13.0	120.078	117.589	237.982	21	22.2	147.548	149.987	298.000
21	44.0	117.526	120.010	237.978	21	31.4	149.984	147.503	298.003
21	53.7	119.994	117.513	237.994	22	3.9	147.461	149.837	298.046
22	24.7	117.405	119.914	238.014	22	13.4	149.813	147.357	298.008
in					Run + 2.2.				
Bar. 30.00.					Ther. 54.3.				

 $\epsilon$  Indi.

1881, October 28.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
0	2.8	81.616	84.070	165.746	0	10.7	103.885	101.399	205.354
0	32.6	84.100	81.617	165.783	0	20.6	101.406	103.872	205.352
0	42.3	81.617	84.095	165.781	0	53.3	103.884	101.398	205.364
1	13.5	84.081	81.605	165.765	1	5.1	101.398	103.858	205.343
in				Images 1. Steadiness 1.					
Bar. 29.98.				Ther. 49.2.					
Run + 4.2.									

## Sirius.

1881, October 28.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
4	55.1	144.397	141.905	286.383	5	6.7	139.725	142.220	282.025
5	33.7	141.920	144.380	286.381	5	20.0	142.206	139.743	282.029
5	43.9	144.378	141.890	286.349	5	54.4	139.733	142.211	282.025
6	21.0	141.914	144.379	286.376	6	8.1	142.216	139.749	282.047
in				Images 1-2. Steadiness 2.					
Bar. 29.87.				Ther. 47.3.					
Run + 3.3.									

 $\epsilon$  Indi.

1881, October 31.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
23	55.8	81.607	84.075	165.741	0	6.3	103.890	101.415	205.374
0	23.8	84.092	81.615	165.771	0	13.7	101.379	103.876	205.327
0	32.7	81.599	84.070	165.736	0	42.7	103.875	101.395	205.350
1	7.5	84.078	81.612	165.769	0	52.5	101.380	103.860	205.323
in				Images 2-3. Steadiness 2-3.					
Bar. 30.41.				Ther. 51.7.					
Run + 4.9.									

## Lacaille 9352.

1881, October 31.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
3	2.6	263.880	266.341	530.498	3	10.6	172.494	169.991	342.663
3	30.4	266.321	263.820	530.457	3	19.8	170.032	172.463	342.681
in				Images 3. Steadiness 3.					
Bar. 30.37.				Ther. 50.0.					
Run + 4.9.									

Lacaille 9352.

1881, November 3.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
1	33.7	263.906	266.407	1	42.1	172.495	170.044
2	1.6	266.397	263.904	1	52.3	170.026	172.525
2	11.4	263.878	266.443	2	21.4	172.529	170.046
2	37.6	266.420	263.893	2	30.3	170.018	172.490
in							
Bar. 30.10.		Ther. 59.5.		Run + 4.4.		Images 2.	
						Steadiness 2.	

Sirius.

1881, November 3.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
2	54.3	139.713	142.212	3	4.0	144.396	141.898
3	21.2	142.229	137.707	3	12.5	141.901	144.419
3	29.1	139.726	142.210	3	37.4	144.407	141.912
3	56.4	142.214	139.727	3	46.9	141.903	144.378
in							
Bar. 30.10.		Ther. 59.5.		Run + 2.7.			

Lacaille 9352.

1881, November 5.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
1	46.9	172.505	170.010	1	55.8	263.904	266.383
2	20.8	170.019	172.468	2	11.6	266.360	263.890
2	29.2	172.490	170.025	2	42.7	263.886	266.380
3	1.2	169.990	172.466	2	53.1	266.400	263.893
in							
Bar. 30.02.		Ther. 60.0.		Run + 4.8.			

Sirius.

1881, November 5.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
3	18.2	144.395	141.888	3	26.2	139.724	142.208
3	44.0	141.916	144.390	3	35.4	142.198	139.744
3	52.1	144.396	141.933	4	0.3	139.755	142.198
4	20.8	141.866	144.393	4	11.0	142.232	139.725
in							
Bar. 30.02.		Ther. 58.8.		Run + 2.6.			

ε Indi.

1881, November 10.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
23	34.3	84.115	81.620	23	43.7	101.415	103.895
0	4.6	81.623	84.086	23	55.1	103.866	101.399
0	11.7	84.102	81.621	0	22.4	101.405	103.875
0	46.5	81.635	84.074	0	34.2	103.892	101.398
in							
Bar. 30.03.		Ther. 51.3.		Run + 3.0.			



## Sirius.

1881, November 13.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
2	41.2	142.215	139.725	282.021	2	49.3	141.907	144.373	286.379
3	10.4	139.755	142.212	282.048	3	0.6	144.385	141.900	286.382
3	24.4	142.219	139.740	282.040	3	36.1	141.909	144.391	286.389
3	56.0	139.738	142.220	282.039	3	46.3	144.375	141.904	286.367
in									
Bar. 30.21.				Ther. 46°o.					
				Run + 2.6.					

## € Indi.

1881, November 14.

$\beta$				$\alpha$				
h	m	r	R	h	m	r	R	
0	36.2	101.362	103.838	0	46.8	84.093	81.602	165.766
1	7.9	103.865	101.399	1	0.2	81.584	84.083	165.741
1	15.7	101.386	103.858	1	25.9	84.084	81.612	165.781
1	46.2	103.868	101.398	1	37.1	81.598	84.064	165.751
in								
Bar. 30.07.				Ther. 54.7.				
				Run + 3.7.				

## Sirius.

1881, November 18.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
3	29.4	141.910	144.395	286.394	3	37.9	142.215	139.733	282.028
3	58.6	144.413	141.917	286.415	3	48.0	139.759	142.217	282.056
4	10.2	141.917	144.385	286.387	4	19.7	142.213	139.751	282.043
4	38.0	144.400	141.902	286.385	4	29.0	139.741	142.210	282.031
in									
Bar. 30.28.				Ther. 51.8.				Run + 1.9.	

## Lacaille 9352.

1881, November 19.

$\alpha$				$\beta$				
h	m	r	R	h	m	r	R	
1	52.7	263.926	266.412	2	0.5	172.495	169.998	342.623
2	17.4	266.385	263.912	2	9.2	170.011	172.479	342.624
2	25.8	263.902	266.384	2	33.5	172.471	170.012	342.629
2	57.4	266.381	263.883	2	43.1	169.996	172.453	342.601
in								
Bar. 30.02.				Ther. 56.8.				
				Run + 3.4.				

## € Indi.

1881, November 20.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
0	20.7	103.874	101.375	205.321	0	34.7	81.593	84.078	165.737
0	56.6	101.375	103.865	205.321	0	46.2	84.098	81.591	165.758
1	9.4	103.847	101.357	205.291	1	18.9	81.598	84.066	165.744
1	42.7	101.364	103.850	205.318	1	28.9	84.058	81.619	165.762
in									
Bar. 29.85.				Ther. 59.0.				Run + 3.6.	

Lacaille 9352.

1881, November 20.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
3	21.9	172.502	169.965	3	32.3	263.850	266.340
3	52.6	169.967	172.475	3	42.0	266.354	263.854
4	1.2	172.457	169.943	4	9.7	263.783	266.331
			342.650	4	22.3	266.291	263.796
			342.658				530.499
			342.628				530.533
							530.508
							530.519

Bar. 29.85.

Ther. 55.8.

Run + 4.2.

e Indi.

1881, November 24.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
0	52.0	84.069	81.617	1	2.4	101.402	103.863
1	24.6	81.596	84.073	1	15.0	103.863	101.382
1	36.0	84.076	81.601	1	46.1	101.366	103.859
2	9.1	81.624	81.077	1	58.6	103.837	101.372
			165.758				205.349
			165.754				205.335
			165.766				205.332
			165.805				205.323

Bar. 30.19.

Ther. 58.4.

Run + 2.9.

Sirius.

1881, November 24.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
2	23.3	142.230	139.717	2	32.2	141.900	144.379
2	51.3	139.726	142.209	2	41.9	144.376	141.907
3	4.0	142.236	139.743	3	14.4	141.907	144.386
3	34.8	139.724	142.228	3	24.7	144.391	141.908
			282.026				286.378
			282.013				286.381
			282.057				286.383
			282.030				286.386

Bar. 30.00.

Ther. 61.7.

Run + 2.1.

Lacaille 9352.

1881, November 26.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
1	23.1	266.441	263.939	1	35.6	169.987	172.496
1	55.1	263.923	266.409	1	45.9	172.510	170.024
2	5.1	266.409	263.925	2	13.9	170.005	172.492
			530.565	2	24.4	172.513	169.998
			530.536				342.602
			530.544				342.657
							342.632
							342.651

Bar. 29.85.

Ther. 56.0.

Run + 5.4.

Sirius.

1881, November 28.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
4	6.3	144.430	141.933	4	14.5	139.761	142.254
4	33.2	141.920	144.420	4	23.8	142.254	139.757
4	47.3	144.417	141.922	4	56.1	139.741	142.235
5	20.9	141.934	144.431	5	7.8	142.249	139.760
			286.447				282.092
			286.422				282.089
			286.421				282.055
			286.445				282.088

Bar. 30.10.

Ther. 55.7.

Run + 1.6.

Lacaille 9352.

1881, November 29.

$\beta$					$\alpha$				
h	m	r	R		h	m	r	R	
2	3'7	170°040	172°511	342°682	2	11'5	266°470	263°979	530°666
2	33'8	172°522	170°015	342°683	2	24'6	263°957	266°460	530°644
2	45'5	170°027	172°514	342°695	2	56'6	266°460	263°924	530°646
3	20'4	172°504	169°994	342°680	3	9'8	263°908	266°429	530°616

in  
Bar. 29°98. Ther. 55°3. Run + 4'1. Images 2. Steadiness 2.

e Indi.

1881, December 1.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
1	35'0	81°632	84°102	165°823	1	49'6	103°888	101°373	205°371
2	9'9	84°104	81°611	165°821	1	59'8	101°372	103°860	205°349
2	18'9	81°630	84°064	165°805	2	27'5	103°867	101°342	205°347
2	44'4	84°066	81°594	165°788	2	36'8	101°354	103°840	205°341

in  
Bar. 30°25. Ther. 53°8. Run + 4'3.

 $\alpha_2$  Centauri.

1881, December 1.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
7	48'6	150°205	147°730	298°030	8	0'9	117°742	120°203	238°026
8	25'4	147°747	150°181	298°037	8	14'1	120°181	117°740	238°006

Lacaille 9352.

1881, December 8.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
1	35'3	170°046	172°458	342°624	1	56'0	266°382	263°977	530°566
2	21'0	172°452	170°025	342°617	2	9'0	263°985	266°379	530°580
2	28'9	170°017	172°437	342°598	2	39'4	266°387	263°975	530°605
3	1'6	172°461	170°018	342°645	2	50'7	263°967	266°363	530°586

in  
Bar. 30°16. Ther. 56°0. Run + 3'1.

Sirius.

1881, December 8.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
3	26'1	139°797	142°176	282°053	3	38'2	144°369	141°960	286°416
3	56'0	142°177	139°767	282°024	3	47'6	141°955	144°346	286°387
4	2'7	139°771	142°180	282°030	4	13'4	144°375	141°961	286°420
					4	22'4	141°957	144°336	286°376

in  
Bar. 30°17. Ther. 54°0. Run + 2'4.

## Sirius.

1881, December 9.

$\alpha$					$\beta$									
h	m	r	r	R	h	m	r	r	R					
4	16.4	144.367	141.942	286.392	4	26.3	139.769	142.180	282.027					
4	44.7	141.959	144.346	286.386	4	36.4	142.198	139.789	282.066					
4	53.1	144.371	141.980	286.432	5	7.9	139.792	142.208	282.079					
5	30.5	141.955	144.388	286.423	5	18.8	142.231	139.820	282.130					
in														
Bar. 30° 09.					Ther. 60° 5.					Run + 1.4.				

## Lacaille 9352.

1881, December 10.

$\alpha$					$\beta$									
h	m	r	r	R	h	m	r	r	R					
3	26.7	266.394	263.956	530.650	3	35.0	169.957	172.433	342.585					
3	56.9	263.905	266.302	530.566	3	47.2	172.432	170.019	342.659					
4	8.0	266.284	263.858	530.526	4	16.0	170.003	172.417	342.671					
4	38.3	263.854	266.238	530.580	4	25.5	172.413	169.961	342.641					
in														
Bar. 30° 04.					Ther. 61° 8.					Run + 4.4.				

 $\alpha_2$  Centauri.

1881, December 10.

$\beta$					$\alpha$									
h	m	r	R		h	m	r	R						
8	37.7	117.753	120.163	238.005	8	44.7	150.169	147.762	298.043					
9	11.8	120.162	117.762	238.020	8	55.7	147.779	150.153	298.046					
9	18.1	117.742	120.133	237.973	9	27.0	150.146	147.770	298.037					
in														
Bar. 30° 02.					Ther. 60° 5.					Run + 2.8.				

## Sirius.

1881, December 11.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
3	17.3	144.394	141.969	286.452	3	27.3	139.791	142.199	282.068
3	45.8	141.966	144.365	286.416	3	36.8	142.215	139.777	282.070
3	53.5	144.370	141.983	286.437	4	1.4	139.796	142.187	282.060
4	18.7	141.970	144.404	286.456	4	10.4	142.189	139.792	282.058
in									
Bar. 30° 13.				Ther. 62° 0.				Run + 3.1.	

## Lacaille 9352.

1881, December 13.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
2	31.9	170.021	172.447	2	42.2	266.370	264.005
3	2.1	172.447	170.036	2	53.2	264.010	266.380
3	9.8	170.034	172.420	3	19.1	266.398	263.971
3	40.2	172.437	170.037	3	29.8	263.941	266.353
in							
Bar. 30° 00.				Ther. 62° 0.			
				Run + 5° 0.			

## Sirius.

1881, December 16.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
3	14.1	139.812	142.179	3	25.8	144.346	141.988
3	45.2	142.203	139.786	3	36.2	141.965	144.348
3	53.3	139.793	142.186	4	2.1	144.368	141.975
4	28.2	142.182	139.802	4	16.4	141.979	144.387
in							
Bar. 29.89.				Ther. 59.8.			
				Run + 2.7.			

 $\epsilon$  Indi.

1881, December 18.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
2	17.9	103.759	101.392	2	27.6	81.666	84.026	165.808	
2	51.2	101.394	103.766	2	38.6	84.025	81.657	165.805	
in									
Bar. 30.23.				Ther. 59.0.				Run + 5.3.	

 $\alpha_2$  Centauri.

1881, December 18.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
8	28.4	150.172	147.742	298.023	8	38.0	117.743	120.166	237.999
9	0.5	147.762	150.170	298.049	8	48.8	120.154	117.762	238.008
9	9.6	150.176	147.750	298.045	9	20.1	117.744	120.169	238.011
9	39.9	147.747	150.171	298.041	9	30.3	120.170	117.739	238.009
in									
Bar. 30.15.				Ther. 57.6.				Run + 1.1.	

## Sirius.

1881, December 23.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
3	33.7	144.404	141.913	286.404	3	43.2	139.735	142.229	282.042
4	0.9	141.941	144.426	286.451	3	52.8	142.241	139.738	282.059
in									
Bar. 30.14.					Ther. 64.0.				
Run + 2.0.					Images 2.				
					Steadiness 2.				

 $\epsilon$  Indi.

1881, December 24.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
2	30.7	84.092	81.607	165.815	2	40.5	101.364	103.821	205.331
3	5.9	81.603	84.058	165.802	2	54.9	103.824	101.301	205.286
3	14.5	84.036	81.639	165.823	3	26.6	101.300	103.715	205.215
3	46.4	81.573	84.050	165.802	3	36.1	103.753	101.277	205.246
in									
Bar. 30.04.				Ther. 64.5.				Run + 3.7.	

ε Indi.

1881, December 25.

β				α			
h	m	r	R	h	m	r	R
2	50.4	101.316	103.774	2	58.3	84.072	81.596
3	14.0	103.798	101.319	3	6.5	81.615	84.066
3	21.1	101.306	103.796	3	30.3	84.074	81.572
3	50.9	103.745	101.289	3	42.9	81.564	84.037
in							
Bar. 30.12.				Ther. 59.0.			
				Run + 3.9.			

α<sub>2</sub> Centauri.

1881, December 25.

β				α			
h	m	r	R	h	m	r	R
8	43.4	120.168	117.705	8	54.2	147.726	150.188
9	22.7	117.689	120.194	9	13.9	150.182	147.706
9	31.1	120.170	117.710	9	40.9	147.727	150.196
9	59.1	117.797	120.179	9	50.6	150.173	147.715
in							
Bar. 30.06.				Ther. 59.5.			
				Run + 1.5.			

α<sub>2</sub> Centauri.

1881, December 26.

α				β			
h	m	r	R	h	m	r	R
9	11.0	147.749	150.180	9	21.3	120.182	117.719
9	41.8	150.173	147.735	9	31.7	117.706	120.181
9	54.3	147.717	150.170	10	7.3	120.187	117.706
10	27.0	150.204	147.711	10	17.6	117.713	120.179
in							
Bar. 30.00.				Ther. 57.0.			
				Run + 0.4.			

ε Indi.

1881, December 27.

α				β			
h	m	r	R	h	m	r	R
2	53.7	84.069	81.619	3	2.3	101.325	103.760
3	25.3	81.602	84.013	3	12.9	103.768	101.298
3	37.4	84.052	81.570	3	49.6	101.274	103.730
4	8.8	81.530	84.021	3	58.6	103.758	101.314
in							
Bar. 30.17.				Ther. 63.7.			
				Run + 2.0.			

Sirius.

1881, December 29.

β				α			
h	m	r	R	h	m	r	R
3	43.8	142.214	139.774	3	52.0	141.933	144.360
4	18.3	139.761	142.199	4	6.3	144.364	141.942
4	28.6	142.221	139.770	4	38.1	141.917	144.402
5	4.9	139.794	142.205	4	51.0	144.375	141.951
in							
Bar. 30.14.				Ther. 66.3.			
				Run + 1.3.			

$\epsilon_2$  Eridani.

1882, January 4.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
5	46.3	244.802	242.379	487.316	6	3.3	251.314	253.744	505.198
6	29.4	242.374	244.780	487.288	6	19.4	253.774	251.332	505.245
6	39.4	244.817	242.377	487.328	6	53.8	251.310	253.752	505.201
7	16.0	242.371	244.779	487.285	7	5.5	253.758	251.354	505.251
in									
Bar. 30.08.				Ther. 63.3.				Run + 2.8.	

## Sirius.

1882, January 7.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
3	28.5	141.944	144.363	286.394	3	36.9	142.190	139.787	282.058
3	56.1	144.377	141.956	286.417	3	45.7	139.773	142.190	282.042
4	3.0	141.943	144.365	286.391	4	13.1	142.209	139.751	282.038
4	34.5	144.373	141.945	286.399	4	23.1	139.780	142.205	282.063
in									
Bar. 30.17.				Ther. 60.8.				Run + 1.2.	

 $\epsilon_2$  Eridani.

1882, January 7.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
6	52.4	251.324	253.739	505.204	7	5.0	244.802	242.358	487.295
7	29.8	253.752	251.211	505.106	7	17.5	242.377	244.785	487.298
7	39.1	251.204	253.853	505.201	7	52.9	244.892	242.290	487.324
8	19.4	253.867	251.192	505.211	8	7.8	242.260	244.906	487.311
in									
Bar. 30.15.				Ther. 60.0.				Run + 3.2.	

 $\alpha_2$  Centauri.

1882, January 7.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
8	38.5	120.280	117.621	237.990	8	46.4	147.628	150.265	298.006
9	2.8	117.624	120.241	237.960	8	55.0	150.264	147.637	298.016
9	9.5	120.249	117.638	237.983	9	18.6	147.635	150.257	298.012
9	36.2	117.625	120.254	237.978	9	27.7	150.293	147.631	298.045
in									
Bar. 30.11.				Ther. 60.0.				Run + 1.6.	

 $\epsilon$  Indi.

1882, January 8.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
3	31.0	101.226	103.846	205.279	3	39.0	84.133	81.509	165.814
3	59.4	103.787	101.219	205.259	3	49.1	81.494	84.092	165.769
4	6.7	101.206	103.777	205.254	4	18.1	84.097	81.482	165.798
4	36.0	103.762	101.150	205.255	4	26.5	81.505	84.094	165.830
in									
Bar. 29.96.					Ther. 61.8.				
					Run + 3.1.				

## Sirius.

1882, January 10.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
3	22.6	142.272	139.705	282.056	3	31.0	141.854	144.415	286.356
3	45.4	139.704	142.253	282.036	3	38.6	144.431	141.871	286.388
3	52.2	142.256	139.707	282.042	4	3.1	141.881	144.427	286.392
4	20.2	139.696	142.252	282.026	4	12.3	144.439	141.862	286.384
in									
Bar. 30.23.				Ther. 61.0.				Run + 3.1.	

 $\alpha_2$  Eridani.

1882, January 10.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
6	37.2	242.292	244.821	487.249	6	45.1	253.807	251.245	505.193
7	2.8	244.855	242.262	487.253	6	53.0	251.251	253.792	505.184
7	11.3	242.285	244.826	487.247	7	19.9	253.798	251.237	505.177
7	44.9	244.819	242.307	487.266	7	29.6	251.246	253.801	505.188
in									
Bar. 30.22.					Ther. 60.5.				
					Run + 2.9.				

 $\epsilon$  Indi.

1882, January 11.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
3	48.5	81.584	84.067	3	56.7	103.770	101.269
4	21.1	84.043	81.533	4	10.6	101.210	103.705
4	30.3	81.588	84.041	4	22.2	103.735	101.220
5	1.2	84.011	81.486	4	52.7	101.167	103.686
in							
Bar. 30.13.				Ther. 63.3.			
				Run + 3.1.			

 $\alpha^2$  Centauri.

1882, January 11.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
9	54.4	150.188	147.680	297.990	10	4.0	117.684	120.176	237.960
10	20.6	147.670	150.199	297.992	10	13.1	120.194	117.666	237.960
10	28.7	150.219	147.676	298.018	10	37.2	117.660	120.177	237.938
10	56.7	147.669	150.185	297.976	10	48.4	120.187	117.689	237.976
in									
Bar. 30.04.					Ther. 63.0.				
					Run + 1.5.				

 $\beta$  Centauri.

1882, January 11.

$\gamma$				
h	m	r	r	R
11	9.5	38.186	35.678	73.897
11	19.3	35.688	38.189	73.908
in				
Bar. 30.03.		Ther. 62.5.		Run + 1.3.



$\alpha_2$  Centauri.

1882, January 13.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
10	9.7	234.665	232.170	467.144	10	23.7	210.889	213.384	424.536
10	48.7	232.224	234.687	467.153	10	36.2	213.407	210.890	424.543
10	57.5	234.714	232.225	467.172	11	9.5	210.910	213.389	424.508
11	32.6	232.197	234.691	467.088	11	22.0	213.416	210.927	424.541
in									
Bar. 30.12.				Ther. 60.5.				Run + 2.1.	

 $\alpha_2$  Centauri.

1882, January 18.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
10	16.1	117.691	120.159	237.951	10	26.7	150.201	147.706	298.031
10	45.3	120.161	117.700	237.963	10	36.8	147.702	150.193	298.019
10	53.1	117.717	120.168	237.986	11	2.7	150.184	147.716	298.023
11	20.8	120.188	117.709	237.997	11	13.6	147.703	150.182	298.008
in									
Bar. 30.10.				Ther. 62.0.				Run + 2.5.	

 $\beta$  Centauri.

1882, January 18.

$\gamma$				
h	m	r		R
11	31.1	35.714	38.179	73.923
11	41.8	38.186	35.702	73.917

## Sirius.

1882, January 19.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
4	0.8	144.376	141.938	286.398	4	10.5	139.783	142.229	282.089
4	32.1	141.934	144.400	286.414	4	21.0	142.250	139.766	282.093
4	39.4	144.414	141.931	286.425	4	47.5	139.755	142.226	282.059
5	6.1	141.942	144.398	286.419	4	56.3	142.224	139.773	282.075
in									
Bar. 30.17.				Ther. 63.3.				Run + 2.1.	

 $\alpha$  Centauri.

1882, January 19.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
10	26.1	210.948	213.378	424.583	10	40.3	234.639	232.257	467.197
11	8.1	213.383	210.994	424.587	10	56.4	232.274	234.671	467.178
11	17.7	210.974	213.402	424.576	11	29.8	234.712	232.264	467.178
11	58.7	213.431	210.990	424.589	11	42.5	232.311	234.693	467.195
in									
Bar. 30.10.				Ther. 62.0.					

$\alpha_2$  Eridani.

1882, January 23.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
5	52.6	253.792	251.326	505.261	6	4.5	242.342	244.797	487.272
6	25.2	251.337	253.782	505.257	6	14.7	244.803	242.359	487.295
6	35.4	253.795	251.338	505.271	6	47.1	242.360	244.795	487.288
7	6.5	251.338	253.792	505.267	6	55.5	244.808	242.361	487.302
in									
Bar. 29.97.				Ther. 64.5.					

 $\alpha_2$  Eridani.

1882, January 24.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
6	10.9	242.356	244.821	487.310	6	21.8	253.789	251.328	505.255
6	55.7	244.825	242.352	487.310	6	39.3	251.379	253.778	505.295
7	6.5	242.367	244.806	487.307					
in									
Bar. 30.00.				Ther. 60.5.					
				Run + 3.6.					

 $\alpha_2$  Centauri.

1882, January 28.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
8	12.0	147.781	150.227	298.109	8	26.3	120.213	117.709	238.007
8	52.1	150.185	147.775	298.072	8	41.8	117.758	120.138	237.984
9	2.4	147.765	150.170	298.049	9	15.0	120.142	117.745	237.981
9	35.3	150.173	147.728	298.020	9	26.8	117.747	120.153	237.995
in									
Bar. 29.91.				Ther. 69.0.					
				Run + 2.0.					

 $\beta$  Centauri.

1882, January 28.

$\gamma$				
h	m	r	r	R
9	47.5	35.730	38.140	73.911
9	57.8	38.145	35.746	73.931
in				
Bar. 29.88.		Ther. 67.0.		Run + 2.8.

 $\alpha_2$  Eridani.

1882, February 3.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
6	7.8	253.775	251.335	6	20.9	242.358	244.791
6	49.7	251.342	253.809	6	31.3	244.814	242.378
in							
Bar. 29.90.				Ther. 65.3.			
				Run + 3.4.			

$\alpha_2$  Eridani.

1882, February 6.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
6	18.1	244.794	242.340	487.267	6	27.8	251.339	253.769	505.246
6	54.6	242.349	244.776	487.258	6	39.6	253.798	251.335	505.271
7	2.6	244.791	242.338	487.262	7	11.9	251.325	253.801	505.264
7	35.6	242.332	244.783	487.250	7	25.3	253.798	251.345	505.282
in									
Bar. 30.08.				Ther. 68.0.				Run + 4.3.	

 $\alpha_2$  Centauri.

1882, February 8.

$\alpha$					$\beta$									
h	m	r	r	R	h	m	r	r	R					
10	30.8	232.248	234.693	467.201	10	41.7	213.381	210.976	424.594					
11	5.4	234.692	232.262	467.176	10	53.4	210.968	213.409	424.601					
11	14.5	232.282	234.678	467.174	11	27.7	213.419	210.989	424.599					
11	50.4	234.703	232.316	467.204	11	39.2	210.987	213.410	424.579					
in														
Bar. 30.08.					Ther. 65.0.					Run + 3.1.				

 $\alpha_2$  Centauri.

1882, February 9.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
12	3.9	117.722	120.157	237.973	12	14.5	150.176	147.742	298.032
12	40.1	120.173	117.731	237.994	12	28.5	147.735	150.181	298.029
12	50.0	117.731	120.179	237.999	13	4.6	150.156	147.750	298.013
13	31.4	120.164	117.745	237.992	13	12.3	147.745	150.145	298.006
in									
Bar. 30.01.					Ther. 68.8.				
					Run + 1.6.				

 $\beta$  Centauri.

1882, February 10.

\*

h	m	r	R	
7	22.0	38.130	35.746	73.930
7	33.7	35.698	38.141	73.892

in

Bar. 29.96.

Ther. 68.5.

Run + 0.9.

 $\alpha_2$  Centauri.

1882, February 10.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
8	33.5	150.144	147.744	297.996	8	46.1	117.709	120.112	237.911
9	8.3	147.764	150.163	298.044	8	59.4	120.137	117.736	237.966
9	14.8	150.193	147.744	298.055	9	23.1	117.750	120.176	238.023
9	43.9	147.747	150.165	298.034	9	33.9	120.156	117.726	237.980
in									
Bar. 29.95.				Ther. 63.0.				Run + 0.8.	

$\beta$  Centauri.

1882, February 13.

\*

h	m	r	r	R
7	59.9	38.160	35.716	73.927
8	12.0	35.735	38.132	73.916

Bar. 30.01.

Ther. 70.5.

Run + 6.1.

 $\alpha_2$  Centauri.

1882, February 13.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
8	24.9	120.154	117.737	237.975	8	34.0	147.749	150.164	298.020
8	53.1	117.722	120.168	237.980	8	44.4	150.175	147.736	298.021
9	3.0	120.163	117.726	237.982	9	11.0	147.741	150.156	298.012
9	31.4	117.727	120.153	237.977	9	20.8	150.170	147.742	298.030

Bar. 30.00.

Ther. 69.5.

Run + 2.1.

 $\alpha_2$  Centauri.

1882, February 13.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
10	5.5	213.363	210.937	424.579	10	20.7	232.231	234.619	467.118
10	47.0	210.981	213.396	424.604	10	33.4	234.679	232.254	467.186
10	59.7	213.415	210.977	424.606	11	14.6	232.293	234.679	467.183
11	42.8	211.025	213.420	424.621	11	27.2	234.658	232.255	467.113

Bar. 29.97.

Ther. 70.5.

Run + 0.7.

 $\alpha_2$  Eridani.

1882, February 14.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
5	59.4	251.344	253.761	505.244	6	9.6	244.791	242.366	487.290
6	32.1	253.763	251.344	505.245	6	20.5	242.352	244.760	487.245
6	39.1	251.338	253.776	505.252	6	47.2	244.791	242.351	487.275
7	9.5	253.784	251.351	505.273	6	57.8	242.353	244.762	487.248

Bar. 29.98.

Ther. 67.0.

Run + 3.6.

 $\alpha_2$  Centauri.

1882, February 15.

 $\alpha$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
8	5.3	232.113	234.491	466.994	8	30.3	213.258	210.873	424.598
8	56.0	234.603	232.222	467.232	8	44.2	210.876	213.289	424.599
9	6.5	232.196	234.618	467.202	9	17.6	213.322	210.919	424.605
9	48.2	234.661	232.225	467.203	9	35.5	210.897	213.318	424.546

Bar. 30.02.

Ther. 64.3.

Run + 1.4.

## Sirius.

1882, February 16.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
8	31.2	139.783	142.227	282.112	8	40.0	144.363	141.940	286.415
9	0.9	142.211	139.744	282.099	8	49.8	141.917	144.355	286.388
9	9.7	139.790	142.205	282.113	9	21.9	144.361	141.911	286.412
9	50.0	142.212	139.788	282.146	9	34.6	141.899	144.347	286.396
in									
Bar. 30.23.				Ther. 61.5.				Run + 3.0.	

 $\alpha_2$  Centauri.

1882, February 16.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
10	13.3	213.362	210.944	424.583	10	27.3	232.246	234.660	467.177
10	43.1	210.985	213.397	424.620	10	34.3	234.676	232.251	467.186
10	49.9	213.414	210.966	424.611	11	1.9	232.262	234.665	467.146
11	21.4	210.991	213.396	424.587	11	12.8	234.690	232.262	467.170
in									
Bar. 30.22.				Ther. 60.0.				Run + 1.9.	

 $\beta$  Centauri.

1882, February 22.

*					
h	m	r		R	
8	23.2	38.142	35.720	73.911	
8	33.9	35.732	38.128	73.908	
in					
Bar. 30.04.		Ther. 54.5.		Run + 1.6.	

 $\alpha_2$  Centauri.

1882, February 22.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
8	45.4	150.147	147.739	298.000	8	55.1	117.731	120.166	237.991
9	25.9	147.740	150.189	298.052	9	8.1	120.153	117.725	237.975
9	37.2	150.194	147.731	298.049	9	46.1	117.718	120.159	237.979
10	19.2	147.723	150.162	298.011	10	6.7	120.170	117.748	238.021
in									
Bar. 30.07.				Ther. 52.0.				Run + 2.4.	

 $\alpha_2$  Centauri.

1882, February 22.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
11	6.0	213.417	210.985	424.618	11	15.5	232.267	234.659	467.144
11	41.0	210.990	213.904	424.580	11	31.9	234.688	232.262	467.154
11	48.3	213.437	210.998	424.614	12	1.3	232.274	234.681	467.136
12	28.9	210.994	213.424	424.571	12	13.6	234.699	232.297	467.170
in									
Bar. 30.05.				Ther. 51.5.					

$\alpha_2$  Centauri.

1882, February 23.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
8	36.8	120.163	117.731	237.982	8	51.3	147.741	150.162	298.015
9	25.0	117.729	120.128	237.954	9	6.8	150.171	147.754	298.041
9	39.6	120.148	117.738	237.984	9	55.9	147.721	150.159	298.002
10	22.9	117.712	120.140	237.953	10	8.0	150.162	147.711	297.995
in									
Bar. 30.04.					Ther. 65.0.				
					Run + 0.9.				

 $\beta$  Centauri.

1882, February 23.

\*

h	m	r	r	R
10	37.9	38.147	35.731	73.914
10	46.1	35.730	38.143	73.908

in

Bar. 30.00.                      Ther. 66.0.                      Run + 3.8.

## Sirius.

1882, February 24.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
9	0.1	144.356	141.923	286.402	9	8.7	139.780	142.203	282.101
9	32.1	141.919	144.348	286.416	9	21.1	142.193	139.765	282.082
9	40.6	144.352	141.905	286.413	9	49.6	139.758	142.192	282.096
10	11.6	141.887	144.318	286.400	10	0.1	142.198	139.756	282.110
in									
Bar. 30.20.					Ther. 58.5.				
					Run + 4.0.				

## Sirius.

1882, February 27.

$\alpha$					$\beta$				
h	m	r	R		h	m	r	R	
9	0.7	141.908	144.367	286.396	9	13.2	142.206	139.765	282.089
9	36.5	144.313	141.915	286.376	9	24.6	139.745	142.217	282.086
in									
Bar. 30.02.					Ther. 64.3.				
					Run + 3.5.				

 $\alpha_2$  Centauri.

1882, March 2.

$\alpha_1$					$\beta_1$				
h	m	r	r	R	h	m	r	r	R
10	54.7	234.669	232.289	467.120	11	23.4	210.970	213.441	424.605
12	0.6	232.242	234.710	467.129	11	51.2	213.439	210.993	424.604
12	9.0	234.715	232.241	467.127	12	20.4	210.987	213.422	424.562
13	2.9	232.263	234.707	467.114	12	32.9	213.453	210.988	424.588
in									
Bar. 29.91.					Ther. 64.0.				
					Run + 3.2.				

$\alpha_2$  Centauri.

1882, March 4.

$\beta^1$			$\alpha^1$		
h	m	R	h	m	R
10	54.6	210.968	11	4.8	234.659
11	30.3	213.424	11	18.4	232.235
11	39.0	211.003	11	48.2	234.673
12	13.0	213.433	11	58.9	232.259
		213.386			234.676
		424.574			467.105
		424.596			467.119
		424.595			467.116
		424.576			467.116

Bar. 30.10. Ther. 59.3. Run + 3.7. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1882, March 4.

$\alpha$			$\beta$		
h	m	R	h	m	R
12	34.9	147.711	12	44.8	120.180
13	4.6	150.146	12	54.4	117.735
13	13.5	147.717	13	21.9	120.167
13	45.5	150.170	13	34.1	117.736
		150.171			120.170
		297.998			237.996
		297.992			237.992
		298.005			237.980
		298.001			237.992

Bar. 30.08. Ther. 55.0. Run + 1.8. Images 1-2. Steadiness 2-3.

 $\beta$  Centauri.

1882, March 5.

*		
h	m	R
8	13.4	38.139
8	22.0	35.717
		35.726
		38.155
		73.915
		73.921

Bar. 30.14. Ther. 65.0. Run + 2.2. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1882, March 5.

$\beta$			$\alpha$		
h	m	R	h	m	R
8	31.6	120.172	8	41.1	147.725
9	1.0	117.734	8	51.5	150.164
9	9.5	120.152	9	19.2	147.722
9	42.7	117.716	9	32.1	150.183
		120.153			147.710
		237.974			298.000
		237.979			298.000
		237.963			298.014
		237.968			298.013

Bar. (30.14). Ther. (65.0). Run + 2.4. Images 2. Steadiness 2.

## Sirius.

1882, March 5.

$\beta$			$\alpha$		
h	m	R	h	m	R
9	58.4	139.744	10	6.5	144.341
10	23.7	142.177	10	15.3	141.873
10	31.4	139.712	10	40.9	144.300
10	57.2	142.143	10	48.5	141.851
		139.697			144.284
		282.108			286.407
		282.083			286.406
		282.068			286.418
		282.095			286.412

Bar. 30.14. Ther. 65.0. Run + 3.6. Images 2-3. Steadiness 2-3.

$\alpha_2$  Centauri.

1882, March 6.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
10	49.6	150.171	147.715	298.011	10	57.1	117.733	120.153	237.988
11	16.5	147.721	150.149	297.994	11	7.1	120.141	117.716	237.959
11	26.0	150.170	147.714	298.006	11	35.1	117.722	120.164	237.986
12	1.7	147.745	150.165	298.029	11	50.0	120.170	117.745	238.013

Ther.  $56^{\circ}0$ . Run + 1.4. Images 1-2. Steadiness 2-3.

 $\beta$  Centauri.

1882, March 6.

*				
h	m	r	r	R
12	14.3	38.151	35.722	73.900
12	27.9	35.707	38.160	73.894

in  
Bar.  $30^{\circ}15$ . Ther.  $55^{\circ}0$ . Run + 2.5. Images 1-2. Steadiness 1-2.

 $\beta$  Centauri.

1882, March 9.

*				
h	m	r	r	R
8	32.5	38.152	35.696	73.896
8	45.2	35.704	38.147	73.899

in  
Bar.  $30^{\circ}21$ . Ther.  $61^{\circ}0$ . Run + 0.3. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1882, March 9.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
9	1.1	120.172	118.211	9	8.7	147.700	150.166
9	32.0	117.701	120.150	9	19.3	150.159	147.724
9	49.0	120.178	117.729	9	59.2	147.718	150.158
10	19.3	117.687	120.151	10	9.8	150.159	147.703
			237.950				297.984
			238.008				298.003
			237.940				297.999
							297.985

in  
Bar.  $30^{\circ}20$ . Ther.  $62^{\circ}0$ . Run + 1.4. Images 2-3. Steadiness 2.

 $\epsilon$  Indi.

1882, March 9.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
14	42.1	83.992	81.566	165.851	14	58.0	101.208	103.682	205.151
15	23.3	81.570	84.058	165.850	15	10.6	103.706	101.209	205.159
15	35.0	84.057	81.578	165.840	15	48.2	101.232	103.721	205.159
16	17.7	81.624	84.097	165.880	16	3.5	103.731	101.266	205.189

in  
Bar.  $30^{\circ}15$ . Ther.  $61^{\circ}5$ . Run + 3.3. Images 3-4. Steadiness 3-4.



## Sirius.

1882, March 10.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
8	47.2	141.919	144.351	286.384	8	59.1	142.226	139.752	282.089
9	21.3	144.342	141.923	286.400	9	9.5	139.739	142.203	282.057
9	29.7	141.920	144.354	286.416	9	39.8	142.214	139.735	282.084
10	0.6	144.315	141.954	286.446	9	49.2	139.746	142.211	282.099

in  
Bar. 30.06. Ther. 67.0. Run + 2.3. Images 3. Steadiness 3.

 $\alpha_2$  Centauri.

1882, March 10.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
11	20.6	147.723	150.153	297.997	11	28.9	120.179	117.724	238.001
11	46.1	150.163	147.714	297.994	11	37.8	117.731	120.176	238.005
11	56.7	147.729	150.165	298.010	12	7.4	120.174	117.722	237.990
12	27.8	150.163	147.717	297.993	12	19.5	117.736	120.176	238.004

in  
Bar. 30.02. Ther. 65.5. Run + 1.6. Images 2. Steadiness 2-3.

 $\beta$  Centauri.

1882, March 11.

\*

h	m	r	r	R
8	49.9	35.713	38.147	73.907
9	2.6	38.158	35.699	73.902

in  
Bar. 29.97. Ther. 63.0. Run + 1.3. Images 2-3. Steadiness 3.

 $\alpha_2$  Centauri.

1882, March 11.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
9	17.1	120.154	117.726	237.977	9	28.4	147.719	150.150	297.991
9	55.2	117.703	120.136	237.941	9	41.8	150.176	147.724	298.023
10	10.9	120.152	117.703	237.957	10	27.7	147.718	150.198	298.041

in  
Bar. 30.03. Ther. 56.0. Run + 1.8. Images 2. Steadiness 4.

 $\epsilon$  Indi.

1882, March 12.

$\beta$					$\alpha$				
h	m	r	R		h	m	r	R	
15	3.8	101.220	103.641	205.111	15	17.3	84.036	81.592	165.859
15	40.2	103.701	101.241	205.155	15	27.1	81.621	84.020	165.857
15	51.6	101.235	103.738	205.175	16	0.5	84.090	81.652	165.914
16	16.0	103.724	101.291	205.195	16	8.3	81.639	84.091	165.898

in  
Bar. 30.16. Ther. 63.75. Run + 4.0. Images 3. Steadiness 3.

ε Indi.

1882, March 13.

α				β			
h	m	r	R	h	m	r	R
14	54.4	81.618	84.006	15	6.4	103.672	101.258
15	32.8	84.067	81.603	15	19.8	101.241	103.684
15	40.3	81.637	84.039	15	50.3	103.694	101.273
16	10.4	84.076	81.644	16	0.3	101.242	103.710
			165.893				205.178
			165.879				205.160
			165.875				205.172
			165.887				205.148

Bar. 30.10. Ther. 59.0. Run + 2.8. Images 2. Steadiness 2-3.

β Centauri.

1882, March 14.

\*

h	m	r	R	h	m	r	R
8	17.9	35.691	38.161	73	90.2		
8	27.8	38.167	35.693	73	90.9		

Bar. 30.14. Ther. 62.0. Run + 0.4. Images 2. Steadiness 2-3.

α<sub>2</sub> Centauri.

1882, March 14.

α				β			
h	m	r	R	h	m	r	R
8	39.6	147.691	150.184	8	52.5	120.208	117.707
9	13.0	150.178	147.703	9	3.3	117.703	120.178
9	23.4	147.712	150.183	9	32.3	120.176	117.708
9	51.0	150.196	147.687	9	42.1	117.686	120.194
			297.986				238.007
			297.999				237.975
			298.014				237.982
			298.006				237.979

Bar. (30.14). Ther. (63.5). Run + 0.1. Images 2. Steadiness 2-3.

β Centauri.

1882, March 14.

\*

h	m	r	R	h	m	r	R
10	2.5	38.175	35.704	73	91.8		
10	11.7	35.695	38.166	73	89.9		

Bar. 30.13. Ther. 65.0. Run + 1.5. Images 1. Steadiness 1-2.

Sirius.

1882, March 15.

β				α			
h	m	r	R	h	m	r	R
9	49.7	142.189	139.739	9	59.9	141.893	144.333
10	23.3	139.727	142.172	10	11.1	144.308	141.878
10	35.7	142.160	139.708	10	46.2	141.850	144.288
11	8.7	139.688	142.109	10	58.2	144.250	141.844
			282.072				286.400
			282.082				286.378
			282.074				286.409
			282.090				286.407

Bar. 30.10. Ther. 64.0. Run + 1.0. Images 1-2. Steadiness 2-3.

$\alpha_2$  Centauri.

1882, March 15.

$\beta$					$\alpha$				
h	m	r	R		h	m	r	R	
11	34.8	117.739	120.160	237.997	11	43.3	150.131	147.722	297.972
12	2.1	120.163	117.716	237.974	11	55.3	147.714	150.164	297.995
12	10.5	117.717	120.164	237.975	12	20.1	150.154	147.718	297.987
12	38.8	120.164	117.735	237.990	12	29.4	147.702	150.149	297.965

in  
Bar. 30.07. Ther. 61.5. Run + 1.1. Images 1-2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, March 17.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
16	8.5	150.149	147.735	297.968	16	18.6	117.757	120.174	237.997
16	39.8	147.737	150.175	297.995	16	30.6	120.176	117.756	237.998
16	46.5	150.163	147.731	297.977	16	54.7	117.745	120.180	237.992
17	11.5	147.757	150.148	297.989	17	2.6	120.154	117.766	237.987

in  
Bar. 30.17. Ther. 59.3. Run + 0.6. Images 1-2. Steadiness 2.

## Sirius.

1882, March 18.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
8	57.5	141.917	144.345	286.382	9	8.5	142.175	139.757	282.048
9	30.5	144.313	141.913	286.371	9	19.8	139.750	142.196	282.067
9	38.6	141.927	144.336	286.414	9	50.3	142.171	139.748	282.064
10	17.8	144.311	141.909	286.425	9	59.4	139.749	142.169	282.071

in  
Bar. 30.11. Ther. 64.3. Run + 1.3. Images 3. Steadiness 3.

## Sirius.

1882, March 20.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
8	28.9	141.927	144.339	286.372	8	38.4	142.194	139.796	282.094
8	56.8	144.369	141.917	286.405	8	47.8	139.786	142.194	282.088
9	6.6	141.932	144.343	286.401	9	17.0	142.192	139.783	282.095
9	40.1	144.330	141.905	286.388	9	28.5	139.776	142.169	282.073

in  
Bar. 30.15 Ther. 63.8. Run + 0.2. Images 2. Steadiness 2.

 $\epsilon$  Indi.

1882, March 20.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
15	41.7	103.665	101.292	205.169	15	55.7	81.658	84.056	165.895
16	18.2	101.292	103.679	205.150	16	7.0	84.045	81.660	165.875
16	30.4	103.704	101.304	205.179	16	40.7	81.667	84.059	165.863
17	0.3	101.323	103.720	205.191	16	50.0	84.065	81.683	165.877

in  
Bar. 30.14. Ther. 62.3. Run + 2.3. Images 2. Steadiness 2-3.

$\alpha_2$  Centauri.

1882, March 21.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
8	23.7	150.157	147.730	297.993	8	39.6	117.725	120.146	237.960
9	4.8	147.743	150.145	298.004	8	53.0	120.146	117.741	237.979
9	12.7	150.151	147.727	297.997	9	23.1	117.741	120.083	237.921
9	50.4	147.728	150.139	297.991	9	41.2	120.171	117.734	238.005

in  
Bar. 30.22. Ther. 64.3. Run + 0.6. Images 3. Steadiness 3-4.

 $\alpha_2$  Centauri.

1882, March 23.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
8	29.7	117.733	120.138	237.957	8	41.1	150.114	147.747	297.971
9	1.3	120.134	117.732	237.959	8	52.8	147.731	150.146	297.990
9	10.2	117.730	120.141	237.965	9	22.5	150.147	147.731	297.996
9	51.5	120.134	117.759	237.992	9	37.5	147.744	150.139	298.003

in  
Bar. 30.03. Ther. 67.5. Run + 0.5. Images 2-3. Steadiness 3.

 $\beta$  Centauri.

1882, March 23.

*				
h	m	r	r	R
10	3.5	35.730	38.132	73.901
10	12.8	38.130	35.728	73.896

in  
Bar. 30.00. Ther. 64.0. Run + 1.3. Images 2. Steadiness 2.

 $\epsilon$  Indi.

1882, March 23.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
15	55.5	84.021	81.673	165.873	16	8.8	101.301	103.673	205.161
16	33.5	81.671	84.059	165.875	16	23.1	103.678	101.330	205.183
16	42.4	84.071	81.695	165.904	16	52.7	101.314	103.714	205.181
17	15.7	81.703	84.080	165.898	17	3.6	103.687	101.288	205.122

in  
Bar. 29.89. Ther. 57.3. Run + 2.0. Images 2-3. Steadiness 2-3.

## Sirius.

1882, March 24.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
8	27.9	144.326	141.957	286.388	8	38.3	139.794	142.193	282.090
8	58.4	141.940	144.338	286.397	8	48.9	142.190	139.795	282.091
9	13.1	144.352	141.931	286.413	9	23.7	139.793	142.189	282.106
9	50.3	141.918	144.319	286.399	9	32.2	142.188	139.783	282.100

in  
Bar. 29.86. Ther. 64.0. Run + 2.7. Images 2. Steadiness 2.

ε Indi.

1882, March 30.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
16	31.0	101.348	103.636	205.156	16	40.5	84.019	81.722	165.882
16	57.2	103.651	101.342	205.146	16	48.8	81.728	84.029	165.881
17	5.5	101.349	103.646	205.140	17	17.1	84.018	81.737	165.870
in									
Bar. 30.07.		Ther. 54.8.		Run + 2.9.		Images 1-2.		Steadiness 1-2.	

 α<sub>2</sub> Centauri.

1882, March 31.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
8	20.2	147.769	150.109	297.982	8	27.6	120.114	117.802	238.002
8	49.6	150.077	147.784	297.974	8	39.3	117.812	120.090	237.990
8	56.5	147.776	150.085	297.975	9	5.2	120.106	117.802	238.002
9	25.1	150.102	147.771	297.993	9	14.8	117.786	120.095	237.977
in									
Bar. 30.07.		Ther. 65.0.		Run + 0.4.		Images 1-2.		Steadiness 2.	

β Centauri.

1882, March 31.

*				
h	m	r	r	R
9	39.3	35.793	38.082	73.916
9	48.6	38.076	35.780	73.897
in				
Bar. 30.06.	Ther. 64.0.	Run + 1.7.	Images 1-2.	Steadiness 1-2.

ε Indi.

1882, March 31.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
16	35.5	84.006	81.752	165.901	16	44.8	101.341	103.649	205.148
16	59.8	81.748	84.027	165.898	16	52.3	103.652	101.362	205.167
17	7.5	84.046	81.758	165.923	17	19.5	101.372	103.655	205.163
17	36.9	81.752	84.039	165.893	17	28.3	103.676	101.372	205.180
in									
Bar. 30.02.		Ther. 63.1.		Run + 3.1.		Images 1-2.		Steadiness 2.	

Sirius.

1882, April 1.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
9	14.0	139.835	142.137	282.091	9	25.1	144.307	141.993	286.441
9	43.2	142.127	139.827	282.094	9	34.2	141.972	144.273	286.397
9	57.1	139.807	142.143	282.096	10	0.2	144.296	141.973	286.444
10	28.1	142.117	139.806	282.113	10	11.8	141.946	144.281	286.419
in									
Bar. 30.06.		Ther. 63.3.		Run + 2.9.		Images 2.		Steadiness 2-3.	

$\beta$  Centauri.

1882, April 2.

\*

h	m	r	r	R
9	25.8	38.070	35.769	73.882
9	35.6	35.781	38.077	73.900

in  
Bar. 30.11.

Ther. 63.0.

Run + 2.0.

 $\alpha_2$  Centauri.

1882, April 2.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
9	56.3	117.809	120.111	238.021	10	6.1	150.083	147.783	297.989
10	29.7	120.129	117.796	238.027	10	15.2	147.774	150.084	297.982
10	39.9	117.802	120.109	238.013	10	49.6	150.084	147.777	297.984
11	10.7	120.109	117.811	238.021	10	58.0	147.780	150.102	298.005

in  
Bar. 30.13.

Ther. 62.0.

Run + 3.2.

Images 2-3.

Steadiness 3.

## Sirius.

1882, April 3.

 $\alpha$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
9	17.6	144.261	141.961	286.357	9	28.2	139.863	142.118	282.108
9	52.5	141.945	144.262	286.373	9	42.0	142.145	139.839	282.123

in  
Bar. 30.18.

Ther. 62.0.

Run + 3.5.

Images 3-4.

Steadiness 3-4.

## Sirius.

1882, April 5.

 $\alpha$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
9	10.2	144.289	141.984	286.402	9	20.8	139.840	142.125	282.099
9	37.7	141.991	144.290	286.434	9	30.8	142.143	139.835	282.109
9	44.8	144.287	141.972	286.420	9	52.8	139.853	142.149	282.152
10	13.4	141.957	144.250	286.405	10	4.8	142.128	139.830	282.121

in  
Bar. 30.00.

Ther. 56.8.

Run + 3.8.

Images 2-3.

Steadiness 2-3.

## Sirius.

1882, April 7.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
8	58.3	139.840	142.164	282.116	9	9.9	144.296	141.975	286.399
9	43.4	142.150	139.813	282.103	9	22.5	141.981	144.269	286.388
9	50.6	139.823	142.140	282.109	10	1.2	144.268	141.961	286.408
10	25.2	142.098	139.798	282.084	10	13.5	141.938	144.272	286.406

in  
Bar. 30.20.

Ther. 63.5.

Run + 2.6.

Images 3.

Steadiness 3.

ε Indi.

1882, April 7.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
16	20.9	101.341	103.602	205.120	16	31.7	84.004	81.734	165.884
16	53.7	103.632	101.361	205.141	16	42.0	81.747	84.022	165.907
17	3.0	101.364	103.636	205.146	17	11.8	84.034	81.737	165.886
17	27.2	103.632	101.372	205.137	17	19.4	81.758	84.056	165.926

Bar. 30.12. Ther. 62.0. Run + 2.5. Images 2-3. Steadiness 3.

 α<sub>2</sub> Centauri.

1882, April 7.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
17	41.9	147.830	150.089	298.008	17	53.0	120.122	117.840	238.034
18	11.9	150.096	147.783	297.977	18	2.8	117.827	120.143	238.044
18	23.8	147.786	150.071	297.960	18	33.3	120.136	117.813	238.034
18	49.6	150.065	147.796	297.979	18	41.3	117.812	120.086	237.986

Bar. (30.11). Ther. (62.0). Run + 2.0. Images 2. Steadiness 2-3.

β Centauri.

1882, April 7.

\*

h	m	r	r	R
18	59.9	35.803	38.080	73.939
19	7.2	38.076	35.806	73.940

Bar. (30.10). Ther. 62.0. Run + 2.0. Images 2. Steadiness 2.

 α<sub>2</sub> Centauri.

1882, April 8.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
9	40.3	120.131	117.795	238.026	9	49.0	147.774	150.093	297.990
10	8.0	117.808	120.115	238.024	9	59.3	150.113	147.777	298.013
10	15.9	120.108	117.812	238.021	10	25.8	147.782	150.071	297.977
10	47.6	117.801	120.097	238.000	10	37.0	150.080	147.756	297.960

Bar. 30.03. Ther. 60.5. Run + 1.9. Images 1-2. Steadiness 2.

β Centauri.

1882, April 8.

\*

h	m	r	r	R
11	0.4	38.092	35.783	73.908
11	9.8	35.807	38.085	73.924

Bar. 30.03. Ther. 56.5. Run + 2.5. Images 1-2. Steadiness 1-2.

ε Indi.

1882, April 9.

α			β		
h	m	R	h	m	R
16	41.8	81.736	16	51.2	103.659
17	8.2	84.034	16	59.6	101.333
17	18.2	81.736	17	28.4	101.344
17	55.5	84.049	17	44.2	103.662
		81.749			101.345
		165.912			103.649
		165.892			205.147
		165.886			205.153
		165.891			205.138
					205.104

Bar. 30.07. Ther. 61.5. Run + 2.4. Images 1-2. Steadiness 1-2.

α<sub>2</sub> Centauri.

1882, April 9.

α			β		
h	m	R	h	m	R
18	9.7	150.092	18	17.3	117.836
18	35.6	147.775	18	27.0	120.125
18	41.1	150.090	18	49.5	117.807
19	3.1	147.766	18	56.3	120.123
		150.083			117.826
		297.977			238.039
		297.964			238.024
		297.984			238.043
		297.977			238.050

Bar. 30.07. Ther. 61.5. Run + 1.4. Images 2. Steadiness 2-3.

Sirius.

1882, April 10.

α			β		
h	m	R	h	m	R
9	11.5	141.971	9	23.0	142.137
9	42.1	144.271	9	32.8	139.827
9	50.9	141.951	9	58.6	142.122
10	18.2	144.249	10	7.8	139.803
		141.925			142.119
		286.388			282.082
		286.378			282.097
		286.382			282.072
		286.381			282.085

Bar. 30.13. Ther. 58.5. Run + 1.7. Images 1-2. Steadiness 2-3.

α<sub>2</sub> Centauri.

1882, April 11.

β			α		
h	m	R	h	m	R
9	9.5	117.819	9	18.1	150.080
9	37.1	120.110	9	28.6	147.759
9	44.7	117.802	9	53.5	150.071
10	12.2	120.106	10	4.0	147.772
		117.790			150.074
		238.008			297.969
		238.005			297.948
		238.004			297.958
		237.997			297.969

Bar. 30.10. Ther. 61.5. Run + 0.9. Images 1. Steadiness 2.

β Centauri.

1882, April 11.

\*

h	m	R	h	m	R
10	22.7	35.787	10	34.8	38.083
		38.095			73.907
					73.909

Bar. 30.09. Ther. 58.3. Run + 3.2. Images 1. Steadiness 2.



ε Indi.

1882, April 12.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
17	28.5	84.050	81.747	165.904	17	38.1	101.362	103.640	205.130
18	1.8	81.767	84.058	165.915	17	52.2	103.670	101.335	205.119
18	9.6	84.049	81.756	165.892	18	20.3	101.352	103.658	205.116
18	37.8	81.764	84.054	165.893	18	29.3	103.654	101.366	205.122

in  
Bar. 30.09. Ther. 59.5. Run + 2.5. Images 2. Steadiness 2-3.

ε Indi.

1882, April 13.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
16	38.1	103.636	101.329	205.131	16	47.7	81.739	84.019	165.893
17	4.7	101.327	103.640	205.113	16	56.3	84.038	81.744	165.910
17	13.6	103.652	101.322	205.114	17	21.2	81.727	84.045	165.884
17	39.1	101.323	103.666	205.116	17	29.6	84.055	81.758	165.920

in  
Bar. 30.20. Ther. 58.9. Run + 3.2. Images 1-2. Steadiness 2.

 α<sub>2</sub> Centauri.

1882, April 13.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
18	10.6	120.136	117.819	238.032	18	17.9	147.775	150.073	297.950
18	38.0	117.813	120.136	238.037	18	27.8	150.074	147.770	297.950
18	45.1	120.124	117.824	238.039	18	51.2	147.767	150.090	297.977
19	8.1	117.811	120.126	238.041	18	59.8	150.085	147.761	297.972

in  
Bar. 30.22. Ther. 59.0. Run + 1.7. Images 1-2. Steadiness 2.

Sirius.

1882, April 18.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
9	8'4	142'127	139'823	282'067	9	18'8	142'002	144'272	286'409
9	41'1	139'829	142'121	282'088	9	28'5	144'276	141'952	286'372
9	49'3	142'128	139'791	282'064	9	58'4	141'951	144'266	286'391
10	20'5	139'794	142'125	282'101	10	9'8	144'254	141'939	286'382

in  
Bar. 30.16. Ther. 61.0. Run + 3.1. Images 2. Steadiness 2-3.

ε Indi.

1882, April 18.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
16	11.2	103.612	101.311	205.109	16	22.2	81.720	84.016	165.891
16	42.6	101.319	103.623	205.103	16	32.7	84.037	81.736	165.918
16	52.4	103.642	101.327	205.124	17	2.4	81.756	84.027	165.906
17	21.3	101.344	103.647	205.127	17	11.9	84.050	81.740	165.907

Bar. 30.10. Ther. 60.8. Run + 3.0. Images 2-3. Steadiness 2-3.

Sirius.

1882, April 19.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
10	4.5	144.259	141.942	286.382	10	12.3	139.823	142.120	282.112
10	32.1	141.925	144.238	286.400	10	21.7	142.106	139.815	282.102

Bar. 30.03. Ther. 60.3. Run + 2.3. Images 3. Steadiness 3.

Sirius.

1882, April 22.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
9	6.0	141.983	144.279	286.390	9	15.9	142.118	139.835	282.074
9	38.6	144.285	141.982	286.420	9	29.2	139.825	142.135	282.090
9	49.6	141.955	144.297	286.417	10	0.5	142.124	139.798	282.079
10	25.8	144.231	141.931	286.382	10	15.3	139.797	142.093	282.065

Bar. 30.19. Ther. 57.0. Run + 2.3. Images 3. Steadiness 3.

Sirius.

1882, April 25.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
8	35 <sup>8</sup>	142 <sup>1</sup> 138	139 <sup>8</sup> 840	282 <sup>0</sup> 081	8	43 <sup>7</sup>	141 <sup>9</sup> 982	144 <sup>2</sup> 276	286 <sup>3</sup> 372
9	6 <sup>9</sup>	139 <sup>8</sup> 826	142 <sup>1</sup> 116	282 <sup>0</sup> 058	8	56 <sup>2</sup>	144 <sup>2</sup> 281	141 <sup>9</sup> 972	286 <sup>3</sup> 373
9	17 <sup>8</sup>	142 <sup>1</sup> 151	139 <sup>8</sup> 820	282 <sup>0</sup> 093	9	28 <sup>0</sup>	141 <sup>9</sup> 974	144 <sup>2</sup> 268	286 <sup>3</sup> 386
9	48 <sup>5</sup>	139 <sup>8</sup> 834	142 <sup>1</sup> 121	282 <sup>0</sup> 100	9	38 <sup>4</sup>	144 <sup>2</sup> 270	141 <sup>9</sup> 961	286 <sup>3</sup> 383

Bar. 30.17. Ther. 61.3. Run + 1.4. Images 1-2. Steadiness 2-3.

α<sub>2</sub> Centauri.

1882, April 25.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
11	16.1	150.072	147.762	297.957	11	25.3	117.824	120.126	238.050
11	43.4	147.778	150.065	297.964	11	33.8	120.109	117.827	238.035
11	52.4	150.066	147.780	297.966	12	0.1	117.822	120.120	238.038
12	16.6	147.765	150.072	297.953	12	9.1	120.122	117.821	238.038

Bar. 30.15. Ther. 58.5. Run + 2.1. Images 1-2. Steadiness 2.

## β Centauri.

1882, April 25.

\*

h	m	r	r	R
12	27.1	38.082	35.790	73.899
12	37.6	35.804	38.082	73.912

 in  
Bar. 30.14.

Ther. 58.0.

Run + 1.5.

## Sirius.

1882, April 26.

α

β

h	m	r	r	R	h	m	r	r	R
9	49.1	144.248	141.953	286.364	10	0.7	139.814	142.097	282.067
10	22.1	141.937	144.219	286.370	10	9.4	142.106	139.794	282.066

 in  
Bar. 30.08.

Ther. 62.0.

Run + 2.1.

Images 1-2.

Steadiness 1-2.

## Sirius.

1882, April 28.

β

α

h	m	r	r	R	h	m	r	r	R
8	33.5	139.832	142.145	282.080	8	43.1	144.277	141.966	286.356
9	2.0	142.141	139.823	282.078	8	51.8	141.976	144.265	286.359
9	9.5	139.839	142.118	282.074	9	20.0	144.280	141.960	286.377
9	51.1	142.113	139.804	282.064	9	38.1	141.983	144.245	286.380

 in  
Bar. 30.10.

Ther. 60.0.

Run + 1.9.

Images 1-2.

Steadiness 1-2.

## β Centauri.

1882, April 28.

\*

h	m	r	r	R
11	15.2	35.800	38.080	73.912
11	23.9	38.080	35.791	73.902

 in  
Bar. 30.13.

Ther. 59.0.

Run + 3.1.

Images 1.

Steadiness 1.

 α<sub>2</sub> Centauri.

1882, April 28.

β

α

h	m	r	r	R	h	m	r	r	R
11	37.6	117.819	120.116	238.033	11	47.5	150.056	147.758	297.934
12	14.4	120.132	117.803	238.030	12	0.2	147.775	150.072	297.966

 in  
Bar. 30.14.

Ther. 57.5.

Run + 1.4.

Images 1-2.

Steadiness 1-2.

## Sirius.

1882, May 2.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
9	13.5	144.265	141.963	286.361	9	28.5	139.800	142.120	282.049
9	48.6	141.948	144.247	286.359	9	38.1	142.112	139.825	282.074
9	57.5	144.259	141.943	286.377	10	8.5	139.810	142.111	282.086
10	30.6	141.909	144.224	286.365	10	19.2	142.114	139.774	282.068

in  
Bar. 30.15. Ther. 56.7. Run + 3.4. Images 2-3. Steadiness 2-3.

## Lacaille 9352.

1882, May 2.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
18	39.0	264.024	266.340	530.738	18	49.9	172.181	169.874	342.290
19	14.1	266.367	264.053	530.708	19	0.8	169.863	172.201	342.279
19	23.2	264.037	266.388	530.694	19	32.9	172.215	169.917	342.304
19	55.7	266.405	264.100	530.728	19	45.1	169.886	172.235	342.282

in  
Bar. 30.15. Ther. 50.3. Run + 6.6. Images 1-2. Steadiness 1-2.

## Sirius.

1882, May 3.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
9	18.1	139.842	142.108	282.074	9	28.2	144.271	141.962	286.379
9	44.4	142.122	139.812	282.076	9	37.0	141.968	144.254	286.375
9	57.2	139.782	142.124	282.060	10	18.5	144.252	141.926	286.387
10	40.1	142.072	139.777	282.068	10	30.5	141.937	144.221	286.390

in  
Bar. 30.28. Ther. 56.5. Run + 2.4. Images 2-3. Steadiness 2-3.

## Sirius.

1882, May 5.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
9	22.3	141.952	144.246	286.336	9	35.8	142.121	139.812	282.067
10	0.5	144.281	141.926	286.384	9	47.7	139.809	142.104	282.058

in  
Bar. 30.20. Ther. 61.5. Run + 2.6. Images 3. Steadiness 3.

## Lacaille 9352.

1882, May 5.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
19	39.0	169.936	172.230	342.327	19	47.8	266.373	264.064	530.664
20	5.7	172.225	169.928	342.293	19	57.5	264.075	266.377	530.668

in  
Bar. 30.07. Ther. 60.8. Run + 4.0. Images 2. Steadiness 2.

ε Indi.

1882, May 6.

α			β		
h	m	R	h	m	R
18	46.8	81.783	18	58.3	103.645
19	15.8	84.058	19	6.7	101.340
19	22.9	81.790	19	32.1	103.639
20	1.0	84.074	19	46.4	101.354
		81.789			103.632
		165.930			205.088
		165.903			205.107
		165.915			205.069
		165.919			205.051

Bar. 30.07. Ther. 51.3. Run + 2.6. Images 2. Steadiness 2.

Lacaille 9352.

1882, May 7.

α			β		
h	m	R	h	m	R
18	18.5	263.982	18	29.8	172.182
18	48.8	266.344	18	39.3	169.873
18	58.5	264.061	19	9.0	172.206
19	31.6	266.385	19	21.1	169.902
		264.071			172.202
		530.742			342.314
		530.714			342.297
		530.737			342.322
		530.712			342.290

Bar. 30.24. Ther. 52.0. Run + 3.7. Images 1-2. Steadiness 2-3.

 α<sub>2</sub> Centauri.

1882, May 7.

α			β		
h	m	R	h	m	R
19	52.4	147.725	20	2.1	120.105
20	21.7	149.982	20	12.3	117.783
20	31.7	147.708	20	41.4	120.076
21	0.9	149.952	20	50.4	117.770
		147.635			120.036
		297.943			238.078
		297.948			238.057
		297.971			238.073
		297.964			238.062

Bar. 30.27. Ther. 48.0. Run + 2.5. Images 2. Steadiness 2-3.

Sirius.

1882, May 8.

β			α		
h	m	R	h	m	R
9	57.8	142.115	10	5.6	141.949
10	27.5	139.771	10	16.2	144.220
		139.795			144.249
		142.101			286.381
		282.064			286.345
		282.064			

Bar. 30.32. Ther. 60.0. Run + 2.6. Images 2. Steadiness 2-3.

 α<sub>2</sub> Centauri.

1882, May 9.

α			β		
h	m	R	h	m	R
9	25.0	147.785	9	35.7	120.100
9	54.9	150.044	9	45.8	117.839
10	2.0	147.766	10	10.8	120.102
10	27.4	150.046	10	20.2	117.824
		147.755			120.117
		297.966			238.025
		297.936			238.052
		297.950			238.037
		297.927			238.045

Bar. 30.29. Ther. 55.0. Run + 3.0. Images 2. Steadiness 2-3.

$\beta$  Centauri.

1882, May 9.

\*

h	m	r	r	R
10	41.6	35.801	38.078	73.915
10	49.9	38.080	35.811	73.926

Bar.  $30^{\circ}29$ . Ther.  $56^{\circ}0$ . Run + 4.5. Images 1. Steadiness 1.

## Lacaille 9352.

1882, May 9.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
18	18.2	172.124	169.843	342.278	18	28.5	264.007	266.316	530.727
18	51.5	169.878	172.194	342.301	18	41.0	266.358	264.050	530.772
19	0.3	172.185	169.905	342.304	19	10.5	264.063	266.372	530.726
19	30.8	169.901	172.212	342.285	19	21.3	266.382	264.074	530.726

Bar.  $30^{\circ}21$ . Ther.  $56^{\circ}0$ . Run + 4.5. Images 1-2. Steadiness 1-2.

 $\alpha_2$  Centauri.

1882, May 9.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
19	50.4	120.115	117.829	238.088	19	58.3	147.737	150.016	297.953
20	18.7	117.773	120.078	238.034	20	8.3	150.017	147.714	297.950
20	25.3	120.081	117.797	238.074	20	34.3	147.699	149.999	297.978
20	56.6	117.766	120.022	238.055	20	43.6	149.994	147.696	297.999

Bar.  $30^{\circ}20$ . Ther.  $57^{\circ}3$ . Run + 2.6. Images 2. Steadiness 2-3.

## Sirius.

1882, May 18.

 $\alpha$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
9	39.9	141.983	144.253	286.394	9	50.9	142.132	139.823	282.105
10	6.2	144.232	141.956	286.377	9	59.6	139.807	142.092	282.060
10	11.5	141.949	144.241	286.389	10	19.5	142.091	139.796	282.072
10	38.6	144.192	141.926	286.375	10	30.8	139.786	142.099	282.087

Bar.  $30^{\circ}31$ . Ther.  $52^{\circ}8$ . Run + 3.0. Images 2-3. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, May 18.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
19	0.6	120.136	117.818	238.056	19	11.3	147.740	150.039	297.920
19	32.8	117.843	120.135	238.107	19	21.9	150.040	147.721	297.913
19	42.0	120.126	117.799	238.063	19	51.4	147.696	150.030	297.919
20	17.2	117.804	120.117	238.108	20	6.1	150.019	147.699	297.938

Bar.  $30^{\circ}20$ . Ther.  $46^{\circ}5$ . Run + 2.2. Images 2. Steadiness 3.

## Lacaille 9352.

1882, May 18.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
20	37.4	172.249	169.927	342.302	20	50.3	264.136	266.422	530.739
21	13.8	169.914	172.240	342.266	21	1.9	266.464	264.123	530.763

in  
 Bar. 30.17.    Ther. 42.5.    Run + 5.9.    Images 2.    Steadiness 2.

## Sirius.

1882, May 19.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
9	29.8	142.131	139.825	282.085	9	37.6	141.959	144.281	286.393
9	51.8	139.796	142.126	282.069	9	44.8	144.259	141.959	286.377
9	58.8	142.124	139.805	282.085	10	11.7	141.922	144.240	286.359
10	29.6	139.784	142.106	282.088	10	20.2	144.289	141.917	286.415

in  
Bar. 30.04. Ther. 56.3. Run + 3.4. Images 2-3. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, May 19.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
11	27.1	120.167	117.839	238.106	11	34.7	147.748	150.062	297.931
11	54.9	117.820	120.155	238.072	11	44.6	150.063	147.740	297.923
12	0.3	120.140	117.822	238.058	12	7.9	147.743	150.075	297.935
12	25.0	117.847	120.167	238.108	12	15.8	150.078	147.741	297.936

in  
Bar. 30.04. Ther. 56.8. Run + 1.0. Images 2. Steadiness 2-3.

## Lacaille 9352.

1882, May 19.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
18	23.7	266.332	263.982	530.742	18	33.2	169.820	172.171	342.263
18	54.4	264.027	266.365	530.723	18	43.2	172.201	169.859	342.309
19	5.5	266.375	264.043	530.722	19	15.1	169.873	172.225	342.292
19	35.3	264.069	266.386	530.706	19	23.0	172.229	169.875	342.288

in  
Bar. 29.99. Ther. 47.0. Run + 4.8. Images 2. Steadiness 2-3.

## Sirius.

1882, May 21.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
9	42.7	144.262	141.945	286.367	9	51.4	139.783	142.098	282.031
10	11.8	141.920	144.249	286.368	10	3.0	142.132	139.788	282.083
10	17.8	144.223	141.933	286.366	10	26.9	139.742	142.073	282.009
10	47.8	141.883	144.205	286.373	10	37.0	142.079	139.756	282.048

in  
Bar. 30.47. Ther. 54.7. Run + 2.1. Images 2. Steadiness 2-3.

$\alpha$ , Centauri.

1882, May 22.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
9	41.6	147.751	150.059	9	51.4	120.140	117.819
10	15.5	150.062	147.732	10	6.6	117.814	120.147
10	24.2	147.739	150.075	10	34.1	120.157	117.838
10	53.7	150.047	147.731	10	44.7	117.815	120.156

in  
Bar. 30.30. Ther. 53.5. Run + 1.9. Images 1-2. Steadiness 2-3.

## Sirius.

1882, May 23.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
9	45.3	142.128	139.785	9	53.2	141.930	144.292
10	15.2	139.799	142.086	10	5.0	144.283	141.955

in  
Bar. 30.40. Ther. 55.5. Run + 3.2. Images 2. Steadiness 2-3.

 $\epsilon$  Indi.

1882, May 23.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
16	41.8	84.039	81.726	16	50.7	101.285	103.638
17	10.6	81.746	84.063	17	1.8	103.626	101.300
17	20.6	84.064	81.758	17	30.1	101.317	103.636
17	49.9	81.763	84.077	17	39.4	103.642	101.294

in  
Bar. 30.42. Ther. 56.0. Run + 4.1. Images 1-2. Steadiness 2.

## Lacaille 9352.

1882, May 23.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
18	7.1	169.764	172.152	18	22.5	266.334	263.981
18	39.0	172.145	169.834	18	31.1	263.996	266.338

in  
Bar. 30.42. Ther. 55.5. Run + 3.8. Images 2. Steadiness 2.

 $\epsilon$  Indi.

1882, May 24.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
16	30.3	101.213	103.687	16	40.3	84.093	81.662
17	1.8	103.702	101.237	16	49.0	81.670	84.129
17	9.9	101.236	103.689	17	20.7	84.107	81.689
17	44.0	103.729	101.249	17	31.0	81.686	84.125

in  
Bar. 30.45. Ther. 56.3. Run + 3.1. Images 2. Steadiness 2.



$\alpha_1$  Centauri.

1882, May 26.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
9	58 <sup>1</sup>	120 <sup>2</sup> 227	117 <sup>7</sup> 737	238 <sup>0</sup> 666	10	7 <sup>8</sup>	147 <sup>6</sup> 630	150 <sup>1</sup> 140	297 <sup>8</sup> 895
10	24 <sup>6</sup>	117 <sup>7</sup> 732	120 <sup>2</sup> 221	238 <sup>0</sup> 566	10	16 <sup>5</sup>	150 <sup>1</sup> 128	147 <sup>6</sup> 662	297 <sup>9</sup> 916
10	32 <sup>1</sup>	120 <sup>2</sup> 208	117 <sup>7</sup> 744	238 <sup>0</sup> 555	10	41 <sup>5</sup>	147 <sup>6</sup> 636	150 <sup>1</sup> 156	297 <sup>9</sup> 918
10	58 <sup>6</sup>	117 <sup>7</sup> 728	120 <sup>2</sup> 220	238 <sup>0</sup> 550	10	50 <sup>1</sup>	150 <sup>1</sup> 137	147 <sup>6</sup> 636	297 <sup>8</sup> 898

Bar. 30.36. Ther. 59.0. Run + 1.5. Images 2. Steadiness 2-3.

 $\beta$  Centauri.

1882, May 26.

*				
h	m	r	r	R
11	7.1	38.172	35.701	73.906
11	16.5	35.699	38.163	73.894

Bar. 30.38. Ther. 59.0. Run + 4.6. Images 2. Steadiness 2.

 $\beta$  Centauri.

1882, May 26.

*				
h	m	r	r	R
16	48.2	38.177	35.724	73.926
16	56.5	35.711	38.177	73.915

Bar. 30.37. Ther. 60.0. Run + 1.7. Images 2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, May 26.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
17	10.9	120.253	117.769	238.090	17	19.4	147.655	150.150	297.891
17	40.2	117.781	120.257	238.109	17	28.8	150.140	147.674	297.901
17	50.8	120.261	117.783	238.117	18	0.0	147.666	150.145	297.905
18	19.2	117.758	120.275	238.113	18	9.3	150.140	147.626	297.864

Bar. (30.37). Ther. 60.0. Run + 1.9. Images 2-3. Steadiness 2-3.

## Lacaille 9352.

1882, May 26.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
18	40.9	266.420	263.956	530.739	18	52.3	169.754	172.284	342.265
19	11.3	263.970	266.479	530.738	19	1.7	172.262	169.788	342.261
19	18.4	266.472	263.984	530.709	19	31.3	169.778	172.271	342.221
19	51.8	263.981	266.482	530.687	19	42.8	172.294	169.793	342.248

Bar. 30.34. Ther. 60.0. Run + 5.1.

## Sirius.

1882, May 27.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
9	50.3	144.326	141.838	286.330	10	1.2	139.699	142.196	282.052
10	38.9	141.792	144.293	286.338	10	19.2	142.184	139.668	282.031
in									
Bar. 30.25.		Ther. 60.4.		Run + 2.3.		Images 3.		Steadiness 3.	

 $\alpha_2$  Centauri.

1882, May 28.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
9	40.7	150.130	147.636	297.890	9	48.6	117.739	120.220	238.062
10	12.8	147.645	150.139	297.909	9	59.6	120.214	117.740	238.057
10	26.4	150.127	147.652	297.905	10	41.6	117.744	120.245	238.093
11	3.8	147.661	150.133	297.919	10	55.0	120.226	117.756	238.085
in									
Bar. 30.02.		Ther. 51.5.		Run + 1.1.	Images 2-3.		Steadiness 3.		

 $\alpha_2$  Centauri.

1882, May 29.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
9	53.1	117.753	120.221	238.076	10	2.0	150.127	147.654	297.906
10	21.3	120.203	117.758	238.064	10	12.0	147.663	150.128	297.916
in									
Bar. 30.05.		Ther. 54.0.		Run + 2.3.		Images 2.		Steadiness 2-3.	

 $\alpha_2$  Centauri.

1882, June 13.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
11	13.8	117.847	120.266	238.213	11	25.6	150.162	147.728	298.010
11	45.2	120.286	117.852	238.234	11	34.6	147.725	150.183	298.027
12	3.9	117.860	120.292	238.247	12	17.5	150.181	147.744	298.040
12	53.8	120.300	117.873	238.263	12	36.3	147.744	150.190	298.047
in									
Bar. 30.12.		Ther. 63.8.		Run + 2.3.		Images 2.		Steadiness 2.	

 $\alpha_2$  Centauri.

1882, June 13.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
18	27.4	117.837	120.283	238.203	18	37.7	150.191	147.746	298.048
18	55.5	120.283	117.830	238.209	18	46.9	147.737	150.172	298.026
19	4.2	117.846	120.299	238.246	19	16.3	150.152	147.707	298.001
19	42.8	120.255	117.833	238.223	19	27.0	147.704	150.143	298.001
in									
Bar. 30.16.		Ther. 59.0.		Run + 1.4.	Images 2-3.		Steadiness 2.		

$\alpha_2$  Centauri.

1882, June 19.

$\beta$					$\alpha$				
h	m	r		R	h	m	r		R
18	51'3	117'848	120'314	238'257	19	0'9	150'170	147'708	298'007
19	19'7	120'293	117'855	238'261	19	10'4	147'736	150'181	298'054
19	27'1	117'851	120'308	238'280	19	34'2	150'159	147'697	298'020
19	53'9	120'288	117'808	238'243	19	42'6	147'676	150'154	298'004
in									
Bar. 30'31.		Ther. 57'8.		Run + 1'8.	Images 1-2.		Steadiness 1-2.		

 $\epsilon$  Indi.

1882, June 20.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
17	20'8	81 <sup>r</sup> 730	84 <sup>r</sup> 169	17	30'6	103 <sup>r</sup> 713	101 <sup>r</sup> 252
18	3'3	84'168	81'760	17	46'3	101'286	103'732
		166'014	166'021			205 <sup>R</sup> 100	205 <sup>R</sup> 144
Bar. 30'20.				Ther. 47'0.			
Run + 3'6.				Images 1-2.			
				Steadiness 1-2.			

 $\alpha_2$  Centauri.

1882, June 21.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
18	7'3	117'874	120'307	238'257	18	15'1	150'152	147'728	297'980
18	37'2	120'323	117'842	238'253	18	27'9	147'720	150'172	297'998
18	45'0	117'851	120'310	238'252	18	55'3	150'151	147'712	297'986
19	22'5	120'273	117'839	238'228	19	8'8	147'691	150'149	297'975
in									
Bar. 30'06.					Ther. 56'3.				
					Run + 1'8.				

 $\epsilon$  Indi.

1882, June 24.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
17	46'9	81'750	84'184	166'033	17	57'5	103'721	101'270	205'111
18	34'0	84'177	81'754	166'009	18	19'4	101'287	103'709	205'105
18	45'3	81'743	84'199	166'017	18	58'1	103'735	101'290	205'116
19	16'6	84'203	81'775	166'042	19	8'4	101'278	103'753	205'119
in									
Bar. 30'52.		Ther. 55'0.		Run + 2'2.		Images 2-3.		Steadiness 2-3.	

 $\alpha_2$  Centauri.

1882, June 24.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
19	33'9	147'708	150'137	298'011	19	42'5	120'265	117'844	238'247
20	4'7	150'119	147'655	297'988	19	53'7	117'810	120'258	238'218
20	13'5	147'660	150'092	297'986	20	24'9	120'244	117'818	238'261
20	49'3	150'040	147'627	297'999	20	36'0	117'783	120'217	238'222
in									
Bar. 30'50.		Ther. 53'0.		Run + 1'8.	Images 2-3.		Steadiness 2-3.		

$\alpha_2$  Centauri.

1882, June 29.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
18	37.9	117.856	120.297	238.243	18	50.6	150.131	147.677	297.931
19	16.4	120.281	117.847	238.241	19	0.8	147.690	150.137	297.957
19	31.7	117.832	120.275	238.234	19	44.0	150.140	147.688	298.008
20	5.6	120.258	117.796	238.221	19	55.8	147.655	150.118	297.972

Bar.  $30^{\circ}17'$ . Ther.  $46^{\circ}0'$ . Run + 2'3. Images 1-2. Steadiness 2.

 $\alpha_2$  Centauri.

1882, June 30.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
18	32.7	147.658	150.096	297.867	18	44.2	120.265	117.807	238.166
19	8.5	150.089	147.647	297.875	18	58.0	117.820	120.255	238.177
19	21.0	147.648	150.082	297.882	19	35.1	120.256	117.797	238.185
19	58.3	150.062	147.607	297.875	19	47.1	117.806	120.243	238.193

in  
Bar. 30°30. Ther. 43°5. Run + 2'5. Images 1. Steadiness 2-3.

 $\epsilon$  Indi.

1882, July 1.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
17	30.6	101.249	103.671	205.055	17	50.3	84.170	81.728	165.995
18	15.8	103.696	101.252	205.060	18	3.9	81.738	84.145	165.975
18	25.4	101.253	103.687	205.048	18	35.5	84.154	81.732	165.965
18	56.2	103.702	101.267	205.062	18	45.5	81.743	84.159	165.978

Bar.  $30^{\circ}15'$ . Ther.  $45^{\circ}0'$ . Run + 3'.5. Images 1-2. Steadiness 1-2.

 $\alpha_2$  Centauri.

1882, July 1.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
20	2.1	117.766	120.233	238.161	20	9.9	150.035	147.611	297.871
20	37.9	120.207	117.759	238.192	20	22.8	147.612	150.006	297.873
20	48.4	117.755	120.175	238.179	20	59.1	149.983	147.550	297.902
21	19.9	120.126	117.680	238.152	21	9.5	147.514	149.965	297.890

in  
Bar.  $30^{\circ}10$ .      Ther.  $46^{\circ}5$ .      Run + 2.4.

 $\epsilon$  Indi.

1882, July 9.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
18	10.2	81.720	84.145	165.956	18	17.6	103.686	101.266	205.064
18	39.3	84.166	81.725	165.969	18	28.4	101.262	103.701	205.070
18	47.6	81.739	84.173	165.987	18	56.8	103.694	101.262	205.050
19	16.8	84.162	81.735	165.961	19	6.6	101.266	103.700	205.057

Bar.  $30^{\circ}47'$ . Ther.  $47^{\circ}5'$ . Run + 2'7. Images 1-2. Steadiness 1-2.

$\alpha_2$  Eridani.

1882, July 9.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
0	23.9	242.114	244.578	0	36.3	253.680	251.233
1	1.5	244.601	242.196	0	49.5	251.240	253.682
1	10.7	242.174	244.607	1	20.7	253.724	251.288
1	41.9	244.661	242.213	1	32.5	251.289	253.746

Bar. 30.39. Ther. 40.5. Run + 3.9. Images 1-2. Steadiness 2-3.

 $\epsilon$  Indi.

1882, July 10.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
18	0.0	103.680	101.256	18	9.9	81.712	84.169
18	28.1	101.274	103.685	18	19.9	84.166	81.742
18	35.9	103.667	101.254	18	46.2	81.767	84.155
19	8.5	101.280	103.718	18	57.1	84.158	81.753

Bar. 30.14. Ther. 41.0. Run + 3.7.

 $\beta$  Centauri.

1882, July 11.

h	m	r	R
17	7.6	38.156	35.727
17	20.9	35.716	38.145

Bar. 30.36. Ther. 52.0. Run + 3.3. Images 2-3. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, July 11.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
17	35.1	150.103	147.677	17	47.4	117.842	120.255
18	9.8	147.652	150.095	18	1.1	120.299	117.834

Bar. 30.38. Ther. 51.0. Run + 2.4. Images 2. Steadiness 2-3.

 $\alpha_2$  Eridani.

1882, July 11.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
0	16.2	253.596	251.154	0	30.2	242.086	244.568
1	22.0	251.268	253.696	1	12.7	244.636	242.190

Bar. 30.38. Ther. 48.0. Run + 3.9. Images 1. Steadiness 2.

$\alpha$  Eridani.

1882, July 13.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
0	19.6	244.522	242.074	0	32.4	251.202	253.644
1	2.5	242.158	244.615	0	46.1	253.651	251.253
1	16.0	244.614	242.203	1	32.6	251.294	253.751
1	55.6	242.213	244.663	1	43.0	253.761	251.309
in							
Bar. 30.21.				Ther. 40.0.			
				Run + 2.0.			

 $\alpha$  Eridani.

1882, July 22.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
0	51.8	244.600	242.147	487.097	1	6.0	251.238	253.709	505.299
1	28.9	242.185	244.632	487.087	1	17.3	253.736	251.271	505.328
1	37.3	244.668	242.189	487.113	1	48.4	251.282	253.766	505.313
2	6.5	242.201	244.693	487.114	1	57.2	253.748	251.309	505.309
in									
Bar. 30.19.				Ther. 49.3.					
				Run + 2.1.					
				Images 2.					
				Steadiness 3.					

 $\epsilon$  Indi.

1882, July 26.

$\alpha$				$\beta$			
<sup>h</sup> 16	<sup>m</sup> 35.6	<sup>r</sup> 84.176	<sup>R</sup> 81.701	<sup>h</sup> 16	<sup>m</sup> 47.6	<sup>r</sup> 101.214	<sup>R</sup> 103.669
17	22.6	81.723	84.170	17	5.7	103.679	101.219
Bar. 30.39.				Ther. 52.3.			
				Run + 4.3.			
				Images 3.			
				Steadiness 3.			

 $\alpha$  Eridani.

1882, July 26.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
0	42.5	253.655	251.248	505.331	0	55.6	242.153	244.623	487.115
1	18.2	251.280	253.752	505.351	1	7.2	244.648	242.180	487.138
1	28.1	253.744	251.287	505.330	1	40.0	242.209	244.642	487.104
2	8.6	251.347	253.777	505.362	1	54.4	244.691	242.223	487.149
in									
Bar. 30.34.					Ther. 51.5.				
					Run + 2.8.				
					Images 2-3.				
					Steadiness 3.				

 $\beta$  Centauri.

1882, July 27.

*				
h	m	r	r	R
16	43.1	35.726	38.149	73.901
16	53.1	38.187	35.733	73.947
in				
Bar. 30.26.	Ther. 52.0.	Run + 3.9.	Images 2-3.	Steadiness 2-3.

$\alpha_2$  Centauri.

1882, July 27.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
17	10.0	147.646	150.124	17	24.2	120.316	117.863
17	46.3	150.102	147.650	17	37.3	117.873	120.322
in							
Bar. (30.26).				Ther. 52.0.			
				Run + 3.2.			

 $\alpha_2$  Centauri.

1882, July 27.

$\alpha^1$				$\beta^1$			
h	m	r	R	h	m	r	R
18	12.0	232.171	234.600	18	30.1	213.556	211.086
19	7.9	234.594	232.101	18	43.0	211.075	213.538
in							
Bar. 30.23.				Ther. 51.5.			
				Run + 2.8.			
				Images 3. Steadiness 3.			

 $\alpha_2$  Eridani.

1882, July 27.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
0	53.0	242.156	244.592	1	2.6	253.712	251.276
1	27.6	244.633	242.201	1	17.0	251.263	253.750
1	35.4	242.209	244.651	1	47.8	253.767	251.305
2	8.2	244.666	242.204	1	57.6	251.324	253.778
in							
Bar. 30.17.				Ther. 45.5.			
				Run + 2.6.			
				Images 1-2. Steadiness 2.			

 $\alpha_2$  Centauri.

1882, July 30.

$\beta^1$				$\alpha^1$			
h	m	r	R	h	m	r	R
17	29.6	213.567	211.118	17	46.1	232.163	234.603
18	19.8	211.121	213.581	18	1.5	234.647	232.143
18	32.3	213.570	211.120	18	48.9	232.133	234.583
19	20.7	211.084	213.515	19	1.7	234.586	232.111
in							
Bar. 30.39.				Ther. 54.5.			
				Run + 2.7.			

 $\alpha_2$  Eridani.

1882, July 30.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
0	35.4	253.635	251.213	0	46.8	242.142	244.611
1	8.3	251.280	253.709	0	59.2	244.598	242.174
1	16.1	253.717	251.278	1	29.3	242.157	244.650
1	49.5	251.306	253.761	1	39.9	244.651	242.198
in							
Bar. 30.41.				Ther. 54.0.			
				Run + 2.8.			
				Images 1-2. Steadiness 2.			

$\alpha_2$  Centauri.

1882, July 31.

 $\alpha^1$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
17	39.1	232.157	234.614	466.988	17	53.1	213.558	211.118	424.878
18	27.9	234.590	232.163	467.030	18	10.5	211.124	213.568	424.912
18	36.6	232.147	234.597	467.034	18	55.3	213.558	211.086	424.917
19	27.5	234.531	232.085	466.999	19	12.5	211.074	213.537	424.909

in  
Bar. 30.46. Ther. 55.8. Run + 2.4. Images 1-2. Steadiness 2.

 $\beta$  Centauri.

1882, July 31.

\*

h	m	r	r	R
20	25.4	35.700	38.135	73.049
20	36.7	38.144	35.691	73.959

in  
Bar. (30.45). Ther. 55.5. Run + 4.2. Images 2. Steadiness 2.

 $\alpha_3$  Centauri.

1882, July 31.

 $\alpha$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
20	46.1	147.518	149.991	297.826	20	54.8	120.177	117.724	238.166
21	16.5	149.952	147.452	297.847	21	5.1	117.733	120.158	238.185

in  
Bar. 30.45. Ther. 55.5. Run + 2.6. Images 2-3. Steadiness 3.

 $\beta$  Centauri.

1882, August 1.

\*

h	m	r	r	R
16	24.2	35.722	38.156	73.902
16	40.5	38.166	35.715	73.907

in  
Bar. 30.41. Ther. 57.0. Run + 4.1. Images 2. Steadiness 2.

 $\alpha_3$  Centauri.

1882, August 1.

 $\alpha$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
17	0.2	147.650	150.121	297.855	17	13.6	120.308	117.858	238.234
17	38.5	150.095	147.665	297.850	17	25.0	117.865	120.305	238.239

in  
Bar. 30.47. Ther. 57.0. Run + 2.5. Images 2-3. Steadiness 2-3.



$\alpha_2$  Centauri.

1882, August 2.

$\beta^1$				$\alpha^1$					
h	m	r	R	h	m	r	R		
17	19.3	213.589	211.122	424.886	17	32.6	232.161	234.593	466.964
18	5.1	211.105	213.563	424.882	17	50.3	234.616	232.166	467.011
18	13.7	213.563	211.117	424.900	18	30.9	232.123	234.591	466.995
19	0.2	211.070	213.542	424.892	18	45.1	234.559	232.148	467.009
in									
Bar. 30.37.				Ther. 55.0.				Run + 2.5.	

## Sirius.

1882, August 3.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
1	53.2	141.931	144.333	286.388	2	8.3	142.186	139.748	282.015
2	33.7	144.372	141.907	286.381	2	20.2	139.738	142.194	282.013
2	45.0	141.904	144.384	286.387	2	53.8	142.221	139.717	282.018
3	11.8	144.366	141.929	286.387	3	3.5	139.763	142.191	282.034
in									
Bar. 30.25.				Ther. 53.0.					
				Run + 2.3.					
				Images 2.					
				Steadiness 3.					

 $\beta$  Centauri.

1882, August 4.

$\alpha$				
h	m	r	R	
17	1.4	38.177	35.733	73.938
17	16.4	35.735	38.153	73.917
in				
Bar. 30.34.	Ther. 56.0.	Run + 4.4.	Images 2-3.	Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, August 4.

$\beta$				$\alpha$					
<sup>h</sup>	<sup>m</sup>	<sup>r</sup>	<sup>R</sup>	<sup>h</sup>	<sup>m</sup>	<sup>r</sup>	<sup>R</sup>		
17	36.3	120.304	117.859	238.233	17	49.6	147.657	150.106	297.855
in									
Bar. 30.34.				Ther. 55.5.					
				Run + 3.9.					
				Images 3.					
				Steadiness 3.					

## Sirius.

1882, August 4.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
1	44.6	139.738	142.161	281.983	1	57.2	144.331	141.917	286.371
2	21.2	142.183	139.723	281.989	2	9.9	141.897	144.393	286.405
2	29.5	139.760	142.208	282.050	2	43.2	144.381	141.916	286.399
3	8.7	142.193	139.749	282.024	2	53.7	141.922	144.370	286.391
in									
Bar. 30.33.				Ther. 43.3.					
				Run + 2.9.					
				Images 2-3.					
				Steadiness 2.					

$\alpha_2$  Centauri.

1882, August 5.

$\alpha^1$					$\beta^1$				
h	m	r	r	R	h	m	r	r	R
17	19.3	232.349	234.786	467.334	17	35.1	213.690	211.228	425.107
18	13.1	234.760	232.300	467.320	17	55.0	211.239	213.691	425.136

Bar.  $30^{\circ}27$ . Ther.  $48^{\circ}0$ . Run + 2.5. Images 2-3. Steadiness 3.

 $\alpha_2$  Centauri.

1882, August 7.

$\beta^1$					$\alpha^1$				
h	m	r	R		h	m	r	R	
17	31.3	211.060	213.610	424.853	17	51.3	234.583	232.210	467.022
18	17.5	213.500	211.126	424.853	18	5.7	232.197	234.555	466.998
18	24.8	211.122	213.529	424.887	18	32.9	234.538	232.135	466.956
18	51.8	213.518	211.123	424.909	18	42.7	232.126	234.539	466.962

Bar.  $30^{\circ}29$ . Ther.  $55^{\circ}0$ . Run + 3.5. Images 2-3. Steadiness 2-3.

## Sirius.

1882, August 7.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
1	52.8	141.945	144.349	286.419	2	3.7	142.153	139.792	282.027
2	34.2	144.352	141.947	286.402	2	17.1	139.770	142.184	282.036
2	44.3	141.945	144.332	286.377	2	54.2	142.163	139.769	282.013
3	13.8	144.341	141.981	286.415	3	5.0	139.789	142.145	282.015

Bar.  $30^{\circ}24$ . Ther.  $48^{\circ}0$ . Run + 3.4. Images 2-3. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, August 11.

$\alpha^1$					$\beta^1$				
h	m	r	r	R	h	m	r	R	
17	11.6	234.599	232.212	467.002	17	28.9	211.141	213.547	424.869
17	54.6	232.211	234.572	467.024	17	43.9	213.552	211.160	424.906
18	8.9	234.604	232.130	466.991	18	21.6	211.117	213.521	424.870
18	48.9	232.191	234.512	467.011	18	38.1	213.542	211.122	424.916

Bar.  $30^{\circ}24$ . Ther.  $52^{\circ}3$ . Run + 2.8. Images 2. Steadiness 2.

 $\epsilon$  Indi.

1882, August 11.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
1	40.4	84.129	81.811	166.031	1	54.7	101.215	103.680	205.008
2	26.1	81.759	84.130	166.004	2	9.2	103.649	101.284	205.057
3	3.0	84.140	81.732	166.014	2	37.9	103.623	101.267	205.038
					2	53.7	101.256	103.610	205.030

Bar.  $30^{\circ}10$ . Ther.  $53^{\circ}5$ . Run + 5.0.

$\alpha_2$  Centauri.

1882, August 12.

$\beta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	R	
17	32.4	211.151	213.547	424.882	17	48.0	234.575	232.186	466.991
18	17.1	213.515	211.128	424.869	18	3.7	232.184	234.537	466.965
18	30.7	211.127	213.526	424.894	18	40.3	234.545	232.159	466.998
18	58.0	213.493	211.117	424.885	18	50.3	232.153	234.523	466.991

in  
Bar. 30.10. Ther. 53.0. Run + 3.6. Images 1-2. Steadiness 1-2.

 $\alpha_2$  Centauri.

1882, August 14.

$\alpha^1$					$\beta^1$				
h	m	r	r	R	h	m	r	R	
17	33.9	234.558	232.170	466.941	17	42.5	211.177	213.519	424.889
17	59.8	232.184	234.552	466.977	17	50.7	213.521	211.142	424.864
18	6.9	234.550	232.165	466.965	18	14.6	211.130	213.512	424.868
18	33.6	232.205	234.518	467.009	18	23.0	213.518	211.136	424.889

in  
Bar. 30.43. Ther. 52.9. Run + 2.8. Images 1. Steadiness 1-2.

 $\alpha_2$  Centauri.

1882, August 16.

$\beta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	r	R
17	49.3	213.554	211.138	424.892	17	57.4	232.198	234.549	466.986
18	14.3	211.128	213.523	424.876	18	5.1	234.575	232.189	467.012
18	26.0	213.532	211.134	424.904	18	37.5	232.150	234.524	466.967
19	4.9	211.113	213.495	424.897	18	53.6	234.530	232.127	466.976

in  
Bar. 30.44. Ther. 52.0. Run + 2.5. Images 1-2. Steadiness 1-2.

 $\alpha_2$  Eridani.

1882, August 16.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
0	52.8	244.512	242.161	487.022	1	7.7	251.297	253.677	505.322
1	40.0	242.228	244.640	487.123	1	24.2	253.692	251.314	505.316

in  
Bar. 30.42. Ther. 49.0. Run + 4.6. Images 2-3. Steadiness 3.

 $\epsilon$  Indi.

1882, August 16.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
2	3.2	84.164	81.780	166.048	2	15.0	101.250	103.679	205.060
2	46.6	81.740	84.128	165.999	2	34.7	103.644	101.244	205.035
2	54.0	84.127	81.752	166.013	3	7.8	101.239	103.625	205.048
3	29.8	81.732	84.110	166.011	3	20.2	103.651	101.228	205.080

in  
Bar. 30.41. Ther. 49.5. Run + 4.5. Images 3. Steadiness 3.

ε Indi.

1882, August 17.

α				β			
h	m	r	R	h	m	r	R
17	33.0	81.784	84.157	17	44.1	103.656	101.273
18	5.4	84.154	81.769	17	55.6	101.283	103.672
18	15.0	81.787	84.150	18	28.0	103.646	101.273
18	52.5	84.172	81.788	18	40.5	101.258	103.664
in							
Bar. 30.36.		Ther. 58.0.		Run + 4.1.		Images 3.	
						Steadiness 3.	

α<sub>2</sub> Centauri.

1882, August 18.

α				β			
h	m	r	R	h	m	r	R
17	30.5	147.775	150.141	17	42.3	120.340	117.971
18	7.5	150.168	147.771	17	56.0	117.943	120.354
18	23.7	147.669	150.053	18	33.1	120.285	117.894
18	51.0	150.066	147.658	18	42.6	117.887	120.277
in							
Bar. 30.24.		Ther. 52.5.		Run + 2.9.		Images 2-3.	
						Steadiness 2-3.	

β Centauri.

1882, August 18.

*			
h	m	r	R
19	2.1	35.742	38.134
19	10.3	38.116	35.732
in			
Bar. 30.23.		Ther. 48.0.	
		Run + 2.4.	

α<sub>2</sub> Centauri.

1882, August 19.

β				α			
h	m	r	R	h	m	r	R
18	0.7	117.909	120.282	18	8.6	150.068	147.683
18	25.8	120.271	117.899	18	17.0	147.672	150.057
18	31.8	117.878	120.284	18	38.1	150.060	147.657
18	59.3	120.268	117.907	18	50.9	147.660	150.048
in							
Bar. 30.12.		Ther. 52.0.		Run + 3.4.		Images 2-3.	
						Steadiness 3.	

β Centauri.

1882, August 19.

*			
h	m	r	R
19	13.8	35.750	38.136
19	25.1	38.110	35.754
in			
Bar. 30.12.		Ther. 50.0.	
		Run + 4.4.	
		Images 2-3.	
		Steadiness 2-3.	

## Sirius.

1882, August 19.

$\beta$						$\alpha$					
h	m	r	r	R		h	m	r	r	R	
1	59.5	139.774	142.171	282.026		2	13.2	144.336	141.929	286.376	
2	34.8	142.145	139.764	281.989		2	24.0	141.942	144.347	286.395	
2	41.9	139.768	142.164	282.012		2	51.4	144.336	141.974	286.406	
3	17.6	142.164	139.742	281.986		3	5.3	141.947	144.375	286.416	
in											
Bar. 30.10.			Ther. 51.5.		Run + 4.6.	Images 3.		Steadiness 3.			

 $\beta$  Centauri.

1882, August 21.

\*

h	m	r	r	R	
18	24.6	38.134	35.737	73.916	
18	33.5	35.772	38.119	73.940	
in					
Bar. 30.23.		Ther. 54.0.		Run + 4.2.	Images 2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, August 21.

$\alpha$						$\beta$					
h	m	r	r	R		h	m	r	r	R	
18	46.0	150.026	147.675	297.819		18	55.4	117.889	120.270	238.256	
19	19.0	147.627	150.034	297.807		19	7.5	120.297	117.884	238.287	
19	26.4	150.047	147.634	297.836		19	34.6	117.891	120.261	238.280	
19	52.7	147.640	150.004	297.832		19	45.4	120.236	117.839	238.214	
in											
Bar. 30.23.		Ther. 53.0.		Run + 2.9.	Images 1-2. Steadiness 2-3.						

 $\epsilon$  Indi.

1882, August 22.

$\beta$						$\alpha$					
h	m	r	r	R		h	m	r	r	R	
17	55.4	101.262	103.670	205.051		18	5.3	84.137	81.747	165.974	
18	23.3	103.662	101.292	205.060		18	14.2	81.799	84.144	166.029	
18	31.6	101.291	103.672	205.065		18	42.8	84.152	81.767	165.994	
18	56.9	103.673	101.285	205.049		18	50.5	81.770	84.165	166.006	
in											
Bar. 30.21.			Ther. 58.15.		Run + 3.8.						

 $\alpha_2$  Centauri.

1882, August 23.

$\beta$						$\alpha$					
h	m	r	r	R		h	m	r	r	R	
17	52.0	117.913	120.296	238.283		18	4.1	150.058	147.680	297.834	
18	25.2	120.289	117.888	238.260		18	13.9	147.642	150.049	297.792	
in											
Bar. 30.10.		Ther. 51.0.		Run + 2.2.	Images 2. Steadiness 2-3.						

$\beta$  Centauri.

1882, August 23.

\*

h	m	r	r	R
18	37.3	38.136	35.729	73.915
18	46.7	35.735	38.134	73.921

Bar.  $30^{\circ}11$ . Ther.  $50^{\circ}0$ . Run + 5.5. Images 2. Steadiness 2.

 $\epsilon$  Indi.

1882, August 24.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
17	49.9	103.667	101.281	205.071	17	58.8	81.789	84.153	166.035
18	18.8	101.295	103.664	205.067	18	8.1	84.158	81.787	166.034

Bar.  $30^{\circ}13$ . Ther.  $55^{\circ}0$ . Run + 5.2. Images 1. Steadiness 1-2.

 $\epsilon$  Indi.

1882, August 26.

 $\alpha$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
18	3.2	84.210	81.737	166.039	18	13.7	101.233	103.697	205.040
18	32.1	81.768	84.196	166.043	18	23.3	103.699	101.271	205.072
18	42.0	84.209	81.741	166.025	18	50.6	101.234	103.716	205.044
19	10.8	81.735	84.205	166.005	19	2.0	103.726	101.223	205.039

Bar.  $30^{\circ}17$ . Ther.  $55^{\circ}0$ . Run + 6.1.

 $\epsilon$  Indi.

1882, August 31.

 $\beta$  $\alpha$ 

h	m	r	r	R	h	m	r	r	R
18	4.0	101.242	103.689	205.048	18	11.6	84.207	81.758	166.054
18	26.6	103.693	101.236	205.035	18	20.6	81.734	84.205	166.022
18	36.6	101.270	103.696	205.068	18	46.5	84.209	81.751	166.035
19	2.0	103.712	101.266	205.065	18	54.9	81.762	84.218	166.052

Bar.  $30^{\circ}43$ . Ther.  $52^{\circ}0$ . Run + 4.9. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1882, September 1.

 $\alpha$  $\beta$ 

h	m	r	r	R	h	m	r	r	R
18	7.2	150.095	147.619	297.812	18	16.1	117.844	120.342	238.267
18	39.5	147.618	150.086	297.819	18	29.4	120.336	117.872	238.294
18	46.4	150.101	147.624	297.844	18	56.7	117.856	120.323	238.278
19	18.4	147.638	150.089	297.873	19	9.0	120.334	117.843	238.284

Bar.  $30^{\circ}24$ . Ther.  $48^{\circ}8$ . Run + 4.2. Images 2. Steadiness 2-3.

$\alpha_2$  Centauri.

1882, September 8.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
18	13.3	117.880	120.327	18	25.6	150.068	147.623
18	52.5	120.316	117.867	18	41.7	147.608	150.083
19	0.8	117.859	120.322	19	11.8	150.078	147.589
19	34.4	120.306	117.842	19	24.2	147.612	150.047
in							
Bar. 30.27.		Ther. 55.9.		Run + 3.3.		Images 2.	
						Steadiness 3.	

 $\epsilon$  Indi.

1882, September 12.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
18	16.8	84.197	81.747	18	28.0	101.230	103.695
in							
Bar. 30.12.		Ther. 57.0.		Run + 3.4.			

 $\alpha_2$  Centauri.

1882, September 14.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
18	31.3	147.613	150.089	18	39.3	120.321	117.858
18	56.3	150.088	147.616	18	48.7	117.870	120.312
19	4.5	147.616	150.085	19	14.8	120.324	117.868
19	32.8	150.060	147.581	19	24.3	117.852	120.326
in							
Bar. 30.14.		Ther. 56.5.		Run + 4.1.		Images 1-2.	
						Steadiness 1-2.	

 $\epsilon$  Indi.

1882, September 22.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
19	10.5	84.203	81.752	19	19.5	101.253	103.713
19	37.6	81.758	84.219	19	28.7	103.717	101.243
in							
Bar. 30.24.		Ther. 56.3.		Run + 4.2.			

 $\alpha_2$  Centauri.

1882, September 25.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
19	35.3	147.611	150.041	19	44.2	120.309	117.851
20	4.6	150.052	147.595	19	54.2	117.843	120.291
in							
Bar. 30.10.		Ther. 54.0.		Run + 5.8.			

$\alpha_2$  Centauri.

1882, October 1.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
20	8.2	117.802	120.273	20	16.1	149.991	147.558
20	33.8	120.242	117.788	20	25.6	147.539	149.991
20	41.0	117.789	120.259	20	49.8	149.929	147.455
21	12.1	120.211	117.701	21	2.3	147.499	149.879
in							
Bar. 30.37.				Ther. 55.0.			
Run + 3.3.				Images 1-2.			
Steadiness 2.							

 $\alpha_2$  Centauri.

1882, October 2.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
19	50.8	147.592	150.037	20	1.8	120.262	117.693
20	16.4	149.996	147.535	20	10.2	117.828	120.274
20	24.7	147.559	149.987	20	33.9	120.279	117.790
20	50.0	149.987	147.517	20	42.2	117.760	120.244
in							
Bar. 30.19.				Ther. 58.8.			
Run + 3.7.				Images 2.			
Steadiness 2.							

 $\epsilon$  Indi.

1882, November 9.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
1	23.3	84.210	81.808	1	33.0	101.226	103.683
1	51.8	81.777	84.200	1	43.4	103.677	101.227
1	58.9	84.206	81.793	2	13.4	101.228	103.672
in							
Bar. (30.13).				Ther. 55.0.			
Run + 4.3.				Images 1.			
Steadiness 1.							

## Sirius.

1882, November 9.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
3	53.1	144.412	141.950	4	9.2	139.703	142.177
4	29.6	141.967	144.395	4	20.2	142.177	139.755
in							
Bar. 30.13.				Ther. 54.5.			
Run + 3.8.				Images 1-2.			
Steadiness 1-2.							

## Sirius.

1882, November 16.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
2	20.8	141.925	144.355	2	27.6	142.125	139.720
2	43.3	144.401	141.926	2	35.7	139.701	142.151
2	49.4	141.931	144.361	2	57.8	142.168	139.735
3	13.9	144.359	141.959	3	5.9	139.716	142.151
in							
Bar. 30.28.				Ther. 55.5.			
Run + 3.2.				Images 1-2.			
Steadiness 1-2.							



ε Indi.

1882, November 18.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
1	39.9	103.647	101.240	1	50.8	81.804	84.250
2	23.5	101.239	103.635	2	3.9	84.247	81.760
			204.991				166.148
			205.008				166.108

in  
 Bar. 30.19.    Ther. 59°.    Run + 3.1.    Images 3-4.    Steadiness 3-4.

Sirius.

1882, November 23.

$\beta$				$\alpha$					
b	m	r	R	h	m	r	R		
2	52.3	142.174	139.702	281.956	3	0.5	141.940	144.378	286.413
3	18.7	139.738	142.142	281.960	3	10.0	144.375	141.955	286.423
3	28.3	142.157	139.728	281.965	3	37.4	141.952	144.375	286.414
3	53.5	139.719	142.158	281.957	3	45.8	144.393	141.945	286.424

in  
 Bar. 30.18.    Ther. 55°.    Run + 1.5.    Images 1.    Steadiness 1.

Lacaille 9352.

1882, November 24.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
1	42.1	264.220	266.652	531.068	1	54.8	172.228	169.757	342.112
2	11.6	266.626	264.221	531.063	2	2.7	169.778	172.190	342.099
2	17.6	264.172	266.656	531.049	2	24.6	172.176	169.760	342.076
2	45.8	266.623	264.202	531.072	2	35.3	169.772	172.243	342.162

$\text{Bar. (30.08).}$ 
 $\text{Ther. (59.3).}$ 
 $\text{Run + 5.5.}$ 
 $\text{Images 3.}$ 
 $\text{Steadiness 3.}$

Sirius.

1882, November 24.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
3	4.7	141.955	144.388	286.435	3	13.0	142.184	139.709	281.972
3	30.8	144.391	141.964	286.442	3	22.9	139.744	142.174	281.997
3	36.5	141.936	144.391	286.413	3	44.9	142.191	139.734	282.004
3	59.3	144.416	141.952	286.452	3	52.5	139.743	142.198	282.020

in  
Bar. 30.08. Ther. 59°. Run + 1.3. Images 3. Steadiness 3.

Sirius.

1882, November 25.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
2	7.9	141.936	144.374	286.421	2	16.3	142.169	139.726	281.974
2	38.8	144.362	141.939	286.399	2	25.8	139.744	142.165	281.987
2	46.9	141.952	144.392	286.439	2	58.3	142.166	139.735	281.979
3	16.3	144.399	141.936	286.424	3	7.4	139.714	142.170	281.962

in  
Bar. 30.00. Ther. 60°. Run + 2.7. Images 2-3. Steadiness 2-3.

## Lacaille 9352.

1882, November 27.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
1	25.9	172.233	169.794	342.143	1	37.0	264.217	266.661	531.069
2	0.3	169.761	172.232	342.122	1	51.0	266.682	264.223	531.106
2	6.7	172.232	169.764	342.127	2	18.4	264.199	266.645	531.064
2	40.3	169.757	172.211	342.117	2	28.4	266.621	264.165	531.014

in  
 Bar. (30.04). Ther. 62.5. Run + 5.2. Images 2. Steadiness 2-3.

## Sirius.

1882, November 27.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
3	4.9	142.190	139.716	281.984	3	14.1	141.942	144.380	286.412
3	32.7	139.730	142.182	281.990	3	25.0	144.386	141.961	286.435
3	41.3	142.170	139.722	281.970	3	49.9	141.949	144.405	286.439
4	3.4	139.741	142.183	282.001	3	57.1	144.411	141.948	286.443

$\overset{\text{in}}{\text{Bar. } 30.04.}$ 
 $\overset{\circ}{\text{Ther. } 62.0.}$ 
 $\text{Run} + 2.5.$ 
 $\text{Images } 2-3.$ 
 $\text{Steadiness } 2-3.$

## Lacaille 9352.

1882, November 28.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
1	49.8	169.791	172.197	342.112	1	57.3	266.689	264.200	531.092
2	18.4	172.241	169.776	342.153	2	6.8	264.196	266.652	531.058
2	25.7	169.763	172.224	342.126	2	36.7	266.664	264.194	531.093
2	57.8	172.233	169.784	342.177	2	45.9	264.203	266.668	531.115

in  
Bar. (30.07). Ther. 64.8. Run + 5.2. Images 2-3. Steadiness 2-3.

## Sirius.

1882, November 28.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
3	15.8	141.955	144.393	286.437	3	22.5	142.185	139.746	282.010
3	37.9	144.400	141.958	286.443	3	29.8	139.732	142.171	281.981
3	44.5	141.950	144.391	286.425	3	51.0	142.183	139.727	281.988
4	6.4	144.400	141.952	286.434	4	0.1	139.722	142.185	281.984

in  
Bar. 30.07. Ther. 64.0. Run + 3.9. Images 2-3. Steadiness 2-3.

## Lacaille 9352.

1882, November 29.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
1	27.3	264.179	266.655	1	36.6	172.264	169.787
1	54.0	266.644	264.200	1	45.6	169.755	172.187
2	2.2	264.237	266.652	2	9.8	172.234	169.831
2	28.2	266.720	264.190	2	19.0	169.743	172.215

in  
Bar. 30.13.      Ther. 65.0.      Run + 5.8.

## Sirius.

1882, December 3.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
2	37.3	139.721	142.180	2	44.2	144.388	141.954
3	4.9	142.186	139.713	2	55.7	141.934	144.402
3	13.8	139.717	142.180	3	23.6	144.395	141.952
3	40.2	142.184	139.746	3	32.7	141.950	144.394
			281.980				286.439
			281.978				286.430
			281.976				286.436
			282.009				286.433

Bar. 30.22. Ther. 60.0. Run + 3.9. Images 1-2. Steadiness 2.

## Lacaille 9352.

1882, December 4.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
1	38.0	169.754	172.227	1	48.9	266.647	264.190
2	7.0	172.213	169.757	1	57.5	264.184	266.641
2	12.4	169.741	172.206	2	21.8	266.637	264.164
2	41.4	172.211	169.725	2	33.7	264.153	266.651
			342.102				531.038
			342.103				531.032
			342.083				531.027
			342.087				531.041

Bar. (30.23). Ther. (58.7). Run + 5.0. Images 1-2. Steadiness 1-2.

## Sirius.

1882, December 4.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
2	58.9	141.938	144.384	3	8.1	142.145	139.709
3	25.9	144.406	141.934	3	18.5	139.701	142.191
3	30.7	141.919	144.394	3	38.9	142.185	139.701
3	52.9	144.408	141.951	3	46.5	139.712	142.175
			286.416				281.933
			286.429				281.971
			286.401				281.965
			286.445				281.966

Bar. 30.23. Ther. 58.7. Run + 2.7. Images 1-2. Steadiness 1-2.

## Lacaille 9352.

1882, December 9.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
2	4.2	264.243	266.670	2	12.3	172.237	169.734
2	33.2	266.702	264.173	2	21.9	169.703	172.232
2	42.0	264.141	266.659	2	51.5	172.219	169.701
3	12.3	266.685	264.159	3	1.0	169.716	172.222
			531.117				342.102
			531.103				342.070
			531.037				342.072
			531.117				342.099

Bar. 29.93. Ther. 70.5. Run + 6.1. Images 2-3. Steadiness 2-3.

## Lacaille 9352.

1882, December 13.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
2	9.1	172.211	169.692	2	22.0	264.198	266.657
2	26.2	169.725	172.171	2	32.4	266.671	264.186
2	54.8	172.199	169.733	3	6.7	264.143	266.656
3	29.9	169.711	172.185	3	18.3	266.676	264.165
			342.038				531.082
			342.039				531.093
			342.093				531.075
			342.089				531.134

Bar. 30.28. Ther. 57.0. Run + 6.5. Images 2-3. Steadiness 2-3.

## Sirius.

1882, December 18.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
3	11.4	139.716	142.190	281.983	3	23.0	144.414	141.944	286.444
3	39.7	142.215	139.710	282.002	3	31.4	141.941	144.427	286.453
3	46.5	139.704	142.213	281.994	3	59.4	144.453	141.926	286.461
4	19.6	142.191	139.717	281.984	4	10.3	141.934	144.421	286.435
in				Run + 2.6.					
Bar. 29.00.				Ther. 70.0.					

Bar. 29.90.

Ther. 70.0.

Run + 2.6.

## Sirius.

1882, December 24.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
2	37.2	141.926	144.407	286.433	2	45.9	142.184	139.731	281.995
3	14.6	144.438	141.942	286.471	2	59.2	139.722	142.181	281.983
3	22.6	141.936	144.407	286.432	3	31.7	142.205	139.711	281.996
3	56.2	144.415	141.943	286.443	3	42.8	139.736	142.180	281.996
in									
Bar. 30.24.		Ther. 56.8.		Run + 3.6.		Images 2-3.		Steadiness 2-3.	

Bar. 30.24.

Ther. 56.8.

Run + 3.6.

Images 2-3.

Steadiness 2-3.

## Sirius.

1882, December 24.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
9	17.9	141.900	144.374	286.411	9	27.9	142.165	139.684	281.978
9	54.3	141.877	144.363	286.412	9	45.8	142.170	139.668	281.981
10	2.3	144.375	141.904	286.461	10	12.5	139.671	142.129	281.972
10	31.5	141.876	144.327	286.441	10	21.2	142.157	139.659	282.000
in									
Bar. 30.20.		Ther. 56.5.		Run + 3.7.		Images 2-3.		Steadiness 2-3.	

Bar. 30.20.

Ther. 56.5.

Run + 3.7.

Images 2-3.

Steadiness 2-3.

 $\epsilon_2$  Eridani.

1883, February 6.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
7	49.8	244.657	242.221	487.015	8	5.5	251.514	253.929	505.588
8	30.1	242.254	244.680	487.079	8	18.2	253.909	251.518	505.575
<div>in</div> Bar. 29.97.    Ther. 65.8.    Run + 4.0.    Images 3.    Steadiness 3.									

Bar. 29.97.

Ther. 65.8.

Run + 4.0.

Images 3.

Steadiness 3.

 $\epsilon_2$  Eridani.

1883, February 10.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
7	26.4	253.925	251.556	505.621	7	38.8	242.213	244.620	486.970
8	1.0	251.518	253.920	505.583	7	50.5	244.590	242.236	486.964
8	10.6	253.920	251.558	505.625	8	20.6	242.223	244.615	486.983
8	43.2	251.537	253.936	505.624	8	31.1	244.642	242.215	487.003
in									
Bar. 30" 10.		Ther. 66° 5.		Run + 3.5.		Images 2-3.		Steadiness 2-3.	

Bar. 30.10.

Ther. 66.5.

Run + 3.5.

Images 2-3.

Steadiness 2-3.

$\alpha_2$  Eridani.

1883, February 11.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
7	14.6	244.635	242.237	487.006	7	23.3	251.534	253.971	505.644
7	45.5	242.225	244.639	487.000	7	34.5	253.928	251.559	505.627
7	56.1	244.623	242.226	486.987	8	6.5	251.501	253.920	505.566
8	28.8	242.215	244.625	486.984	8	16.2	253.917	251.499	505.563

in  
Bar. 29.98. Ther. 66°. Run + 3.9. Images 2. Steadiness 2-3.

1883, February 11.

 $\beta$  Centauri.

 $\alpha^2$  Centauri.

* h m   r r   R				α h m   r r   R			
9 7.2	38.110	35.740	73.895	9 25.2	150.040	147.634	297.794
9 15.3	35.755	38.153	73.952	9 50.9	147.646	150.052	297.820

β h m   r r   R			
9 33.4	117.865	120.293	238.256
9 41.0	120.263	117.880	238.242

in  
Bar. 29.96. Ther. 63°. Run + 2.7.

 $\alpha_2$  Eridani.

1883, February 13.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
6	34.1	253.921	251.522	505.582	6	44.4	242.224	244.644	487.002
7	5.3	251.542	253.916	505.598	6	55.2	244.615	242.218	486.967
7	13.3	253.929	251.512	505.580	7	21.4	242.206	244.621	486.962
7	49.0	251.510	253.942	505.596	7	34.6	244.642	242.222	487.000

in  
Bar. 30.13. Ther. 63°. Run + 3.7. Images 1-2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1883, February 13.

$\alpha^1$				$\beta^1$					
h	m	r	R	h	m	r	R		
8	52.1	234.456	232.045	466.918	9	1.4	211.043	213.451	424.891
9	45.0	232.116	234.489	466.928	9	22.6	213.431	211.050	424.837
9	54.0	234.456	232.113	466.877	10	4.7	211.083	213.471	424.839
10	31.2	232.168	234.532	466.960	10	17.2	213.503	211.102	424.873

in

Bar. 30.10.      Ther. 64°.      Run + 3.5.

 $\alpha_2$  Eridani.

1883, February 14.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
6	30.1	244.616	242.207	486.957	6	41.4	251.558	253.943	505.640
7	7.7	242.231	244.629	486.994	6	53.2	253.955	251.532	505.626
7	15.9	244.647	242.192	486.974	7	27.5	251.545	253.926	505.612
8	0.3	242.220	244.627	486.986	7	43.0	253.945	251.562	505.650

in  
Bar. 30.12. Ther. 64°. Run + 4.0. Images 2-3. Steadiness 2-3.

$\alpha_2$  Centauri.

1883, February 14.

$\beta^1$				$\alpha$			
h	m	r	R	h	m	r	R
8	48.8	213.382	211.001	9	3.4	232.067	234.481
9	24.1	211.052	213.452	9	14.2	234.466	232.067
9	32.7	213.467	211.067	9	46.9	232.099	234.509
10	9.8	211.079	213.479	9	57.1	234.502	232.121
			424.836				466.927

Bar. 30.12. Ther. 63.5. Run + 3.7.

 $\alpha_2$  Eridani.

1883, February 15.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
6	48.5	251.521	253.944	7	0.9	244.629	242.231
7	23.6	253.956	251.539	7	12.9	242.224	244.627
			505.605				486.994
			505.636				486.987

Bar. 30.18. Ther. 62.8. Run + 3.4. Images 2-3. Steadiness 2-3.

 $\alpha_2$  Eridani.

1883, February 18.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
6	35.8	242.214	244.627	6	51.2	253.942	251.556
7	17.3	244.608	242.220	7	4.9	251.546	253.936
7	26.6	242.206	244.642	7	38.5	253.934	251.525
8	10.0	244.637	242.217	7	52.3	251.529	253.950
			486.970				505.633
			486.959				505.617
			486.980				505.597
			486.991				505.619

Bar. 29.89. Ther. 77.8. Run + 4.1. Images 3. Steadiness 3.

 $\beta$  Centauri.

1883, February 18.

h	m	r	R
9	27.3	35.747	38.130
9	38.3	38.132	35.747
			73.920
			73.921

Bar. 29.88. Ther. 72.0. Run + 4.2. Images 2-3. Steadiness 2.

 $\alpha^2$  Centauri.

1883, February 18.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
9	49.5	117.879	120.262	9	57.7	150.016	147.671
10	20.4	120.277	117.886	10	8.3	147.664	150.040
			238.240				297.808
			238.263				297.825

Bar. 29.88. Ther. 66.0. Run + 4.1. Images 2. Steadiness 2.

$\alpha_2$  Eridani.

1883, February 19.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
6	51.3	253.932	251.566	505.634	7	0.8	242.206	244.614	486.951
7	23.6	251.537	253.954	505.628	7	9.9	244.591	242.195	486.918
7	34.9	253.929	251.523	505.590	7	45.2	242.212	244.621	486.967
					7	59.5	244.621	242.231	486.988

$\beta$  in  
 Bar. 29.92. Ther. 72.8. Run + 5.5. Images 2-3. Steadiness 2-3.

## Sirius.

1883, February 20.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
9	22.2	139.750	142.146	282.018	9	30.3	144.350	141.966	286.459
9	48.3	142.146	139.750	282.038	9	39.7	141.954	144.353	286.459
9	55.0	139.748	142.146	282.042	10	4.5	144.342	141.832	(286.354)

$\begin{matrix} \text{in} \\ \text{Bar. } 29.85. \end{matrix}$ 
 $\begin{matrix} \text{Ther. } 64.8. \end{matrix}$ 
 $\begin{matrix} \text{Run} + 3.0. \end{matrix}$ 
 $\begin{matrix} \text{Images } 1-2. \end{matrix}$ 
 $\begin{matrix} \text{Steadiness } 1-2. \end{matrix}$

## Sirius.

1883, February 21.

$\alpha$					$\beta$				
h	m	r	R		h	m	r	R	
8	31.6	141.962	144.358	286.425	8	44.1	142.153	139.762	
9	6.0	144.356	141.958	286.440	8	56.8	139.755	142.150	
<div> <div>in</div> <div>Bar. 29.95. Ther. 60.0. Run + 4.3.</div> </div>									

 $\alpha_2$  Centauri.

1883, February 26.

$\beta^1$				$\alpha^1$					
h	m	r	R	h	m	r	R		
10	39.0	213.492	211.104	424.835	10	52.0	232.127	234.514	466.876
11	23.5	211.126	213.535	424.855	11	8.9	234.517	232.142	466.877

$\overset{\text{in}}{\text{Bar. 29.95.}} \quad \text{Ther. 65.3.} \quad \text{Run + 4.0.} \quad \text{Images 1-2.} \quad \text{Steadiness 2.}$

 $\alpha_2$  Centauri.

1883, February 28.

$\alpha^1$					$\beta^1$				
h	m	r	r	R	h	m	r	r	R
10	17.1	232.124	234.510	466.911	10	26.0	213.497	211.106	424.858
10	48.3	234.511	232.132	466.884	10	39.1	211.080	213.520	424.841
10	59.8	232.129	234.527	466.884	11	11.4	213.519	211.107	424.864
11	32.0	234.545	232.149	466.894	11	21.3	211.107	213.540	424.845

in

Bar. 30.13.      Ther. 63.3.      Run + 3.6.

$\alpha_2$  Centauri.

1883, March 1.

$\beta^1$				$\alpha^1$					
h	m	r	R	h	m	r	R		
9	55.2	211.102	213.482	424.882	10	5.7	234.486	232.080	466.857
10	33.2	213.520	211.113	424.880	10	21.3	232.107	234.477	466.854
10	46.5	211.122	213.528	424.881	11	0.2	234.501	232.137	466.865
11	28.9	213.541	211.156	424.887	11	15.1	232.145	234.484	466.842

in  
Bar. 30.07. Ther. 64.5. Run + 3.9. Images 2-3. Steadiness 2-3.

## Sirius.

1883, March 3.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
9	36.3	141.958	144.339	286.445	9	44.1	142.147	139.735	282.021
9	59.3	144.338	141.934	286.446	9	50.7	139.738	142.138	282.021
10	7.9	141.942	144.310	286.438	10	16.0	142.138	139.723	282.024
10	36.6	144.286	141.886	286.416	10	26.3	139.722	142.116	282.025

in  
Bar. 30.20. Ther. 66.5. Run + 3.6. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1883, March 3.

$\alpha^1$				$\beta^1$					
h	m	r	R	h	m	r	R		
10	55.4	232.129	234.500	466.862	11	7.6	213.538	211.107	424.855
11	31.1	234.550	232.163	466.916	11	20.2	211.156	213.539	424.892

in  
Bar. 30.20. Ther. 66.0. Run + 3.4. Images 2. Steadiness 2.

## Sirius.

1883, March 4.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
9	26.3	142.139	139.753	282.017	9	35.2	141.942	144.333	286.423
9	53.0	139.743	142.153	282.043	9	44.1	144.349	141.959	286.464
10	1.2	142.148	139.734	282.036	10	13.2	141.917	144.309	286.420
10	32.6	139.722	142.102	282.022	10	23.2	144.307	141.909	286.429

in  
Bar. 30.12. Ther. 67.3. Run + 3.9.

 $\alpha_2$  Centauri.

1883, March 6.

$\beta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	R	
10	37.4	213.507	211.112	424.860	10	52.6	232.109	234.510	466.853
11	14.0	211.130	213.530	424.862	11	1.6	234.531	232.114	466.869
11	23.7	213.544	211.173	424.911	11	35.8	232.140	234.551	466.886
12	6.4	211.140	213.536	424.837	11	52.0	234.534	232.143	466.859

in  
Bar. 29.92. Ther. 65.0. Run + 3.2.



$\alpha_2$  Centauri.

1883, March 8.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
10	33.5	147.637	150.027	297.789	10	42.6	120.258	117.874	238.234
11	5.0	150.022	147.743	297.889	10	51.3	117.906	120.269	238.276
11	19.2	117.626	150.122	297.871	11	40.0	120.289	117.887	238.274
11	58.8	150.015	147.626	297.759	11	49.8	117.877	120.279	238.253
in									
Bar. 30.17.		Ther. 60.0.		Run + 4.1.		Images 3.		Steadiness 3-4.	

 $\beta$  Centauri.

1883, March 8.

*				
h	m	r	r	R
12	14.0	35.757	38.132	73.915
12	28.9	38.141	35.749	73.917
in				
Bar. 30.17.	Ther. 60.0.	Run + 3.0.	Images 3.	Steadiness 3.

 $\alpha_2$  Centauri.

1883, March 27.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
11	8.1	120.269	117.884	238.253	11	17.4	147.615	150.015	297.752
11	38.8	117.889	120.271	238.257	11	27.9	150.020	147.623	297.763
11	47.1	120.278	117.885	238.260	12	2.0	147.618	150.018	297.753
12	26.5	117.886	120.284	238.263	12	16.9	150.021	147.631	297.767
in									
Bar. 30.08.		Ther. 63.0.		Run + 4.3.		Images 2.		Steadiness 2.	

 $\alpha_2$  Centauri.

1883, April 5.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
9	28.3	147.624	150.015	297.762	9	39.5	120.287	117.883	238.271
10	3.0	150.011	147.627	297.763	9	51.5	117.873	120.269	238.244
10	14.8	147.631	150.026	297.783	10	26.5	120.287	117.888	238.278
10	49.9	150.027	147.628	297.780	10	40.9	117.889	120.271	238.263
in									
Bar. 30.14.		Ther. 55.0°.		Run + 4.3.		Images 2-3.		Steadiness 2-3.	

 $\alpha_2$  Centauri.

1883, April 5.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
17	11.8	147.606	150.032	297.722	17	26.0	120.309	117.896	238.273
17	47.0	150.007	147.630	297.728	17	36.8	117.913	120.304	238.286
17	55.0	147.630	150.025	297.748	18	5.2	120.317	117.919	238.312
18	29.5	150.027	147.604	297.738	18	17.9	117.901	120.299	238.279
in									
Bar. 30.09.		Ther. 57.3.		Run + 3.8.		Images 2-3.		Steadiness 2-3.	

$\alpha_2$  Centauri.

1883, April 9.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
17	22.4	117.935	120.311	238.317	17	36.0	150.011	147.623	297.723
18	7.6	120.331	117.908	238.316	17	52.8	147.625	150.036	297.755

Bar.  $30^{\circ}23$ . Ther.  $50^{\circ}3$ . Run + 4.9. Images 3. Steadiness 3.

 $\alpha_2$  Centauri.

1883, April 11.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
17	24.0	150.033	147.623	297.743	17	34.1	117.906	120.309	238.285
18	4.3	147.628	150.017	297.743	17	48.8	120.306	117.916	238.295
18	16.3	150.021	147.632	297.755	18	25.9	117.926	120.301	238.310
18	53.8	147.602	150.020	297.746	18	40.2	120.304	117.900	238.294

Bar.  $30^{\circ}16$ . Ther.  $51^{\circ}3$ . Run + 3.9. Images 1-2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1883, April 15.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
10	25.5	120.307	117.901	238.309	10	37.1	147.628	150.008	297.759
10	57.8	117.895	120.324	238.319	10	46.6	150.017	147.624	297.763
11	5.8	120.301	117.904	238.305	11	18.2	147.615	150.021	297.757
11	39.5	117.897	120.293	238.287	11	29.9	150.007	147.643	297.770

Bar.  $30^{\circ}13$ . Ther.  $66^{\circ}3$ . Run + 3.4. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1883, April 15.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
17	13.0	120.306	117.928	238.301	17	29.2	147.622	150.026	297.735
17	54.6	117.924	120.329	238.325	17	42.3	150.041	147.626	297.756

Bar.  $30^{\circ}08$ . Ther.  $62^{\circ}3$ . Run + 3.6. Images 2-3. Steadiness 3.

 $\alpha_2$  Centauri.

1883, April 16.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
11	12.7	150.019	147.625	297.767	11	21.9	117.894	120.400	238.393
11	44.9	147.621	150.031	297.770	11	32.4	120.302	117.915	238.315

Bar.  $30^{\circ}06$ . Ther.  $62^{\circ}0$ . Run + 4.4.

$\alpha_2$  Centauri.

1883, April 23.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
9	50.6	150.006	147.611	297.741	10	2.0	117.899	120.284	238.284
10	21.5	147.621	150.019	297.765	10	11.8	120.286	117.890	238.277
10	29.2	150.006	147.628	297.759	10	39.5	117.897	120.288	238.287
10	56.8	147.612	150.031	297.767	10	49.4	120.294	117.905	238.300

in  
Bar. 29.95. Ther. 56.8. Run + 4.3. Images 1-2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1883, April 23.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
18	58.3	149.994	147.592	297.710	19	9.5	117.899	120.293	238.296
19	30.9	147.579	149.992	297.728	19	20.5	120.303	117.899	238.315
19	41.2	149.988	147.592	297.751	19	49.9	117.894	120.286	238.321
20	9.4	147.536	149.952	297.706	19	59.0	120.284	117.873	238.310

in  
Bar. 29.87. Ther. 57.0. Run + 4.4. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1883, April 28.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
17	53.8	117.910	120.309	238.292	18	3.1	150.000	147.624	297.720
18	23.5	120.315	117.939	238.336	18	13.5	147.620	150.005	297.725
18	34.7	117.924	120.324	238.335	18	44.3	150.009	147.611	297.736
19	4.7	120.310	117.916	238.328	18	55.9	147.597	150.003	297.725

in  
Bar. 30.18. Ther. 56.0. Run + 2.5. Images 1-2. Steadiness 2.

## Lacaille 9352.

1883, April 28.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
19	19.7	264.300	266.680	531.253	19	27.2	172.008	169.616	341.800
19	46.1	266.721	264.340	531.293	19	34.8	169.641	172.020	341.829
19	56.6	264.318	266.741	531.279	20	5.0	172.051	169.643	341.836
20	22.9	266.718	264.323	531.237	20	13.7	169.662	172.041	341.838

in  
Bar. 30.18. Ther. 56.0. Run + 5.9.

## Sirius.

1883, April 30.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
10	5.1	144.320	141.927	286.432	10	14.4	139.734	142.135	282.042
10	34.1	141.918	144.308	286.467	10	24.5	142.120	139.730	282.038
10	39.8	144.303	141.876	286.437	10	48.3	139.717	142.120	282.071
11	4.9	141.858	144.227	286.433	10	56.1	142.096	139.725	282.077

in  
Bar. 30.14. Ther. 58.3. Run + 3.6. Images 2-3. Steadiness 3.

## Lacaille 9352.

1883, April 30.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
18	49.5	171.990	169.602	341.828	19	1.6	264.287	266.665	531.265
19	24.0	169.623	172.004	341.808	19	13.6	266.682	264.322	531.292
19	30.6	172.008	169.615	341.797	19	40.2	264.290	266.707	531.240
19	58.1	169.628	172.043	341.821	19	50.7	266.697	264.337	531.264

in  
Bar. 30.09. Ther. 49.5. Run + 5.8. Images 2. Steadiness 2.

## Sirius.

1883, May 1.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
9	46.0	142.166	139.777	282.085	9	54.3	141.929	144.336	286.435
9	16.0	139.743	142.137	282.054	10	3.1	144.320	(142.221)	(286.721)
10	25.0	142.137	139.745	282.070	10	33.6	141.902	144.256	286.397
10	55.2	139.712	142.110	282.072	10	43.5	144.298	141.898	286.460

in  
Bar. 30.08. Ther. 60.8. Run + 3.6. Images 2-3. Steadiness 2-3.

## Sirius.

1883, May 8.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
9	8.0	141.958	144.357	286.441	9	15.8	142.150	139.765	282.034
9	32.2	144.341	141.958	286.443	9	23.1	139.770	142.156	282.049

in  
Bar. 30.05. Ther. 67.0. Run + 3.2. Images 1. Steadiness 2.

## Sirius.

1883, May 12.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
9	6.0	142.155	139.762	282.035	9	19.3	141.973	144.319	286.431
9	44.0	139.757	142.150	282.050	9	29.9	144.311	141.949	286.407
9	54.7	142.134	139.756	282.043	10	5.6	141.916	144.331	286.436
10	25.5	139.736	142.114	282.042	10	16.9	144.302	141.923	286.433

in  
Bar. 30.35. Ther. 54.5. Run + 3.9.

 $\alpha_2$  Centauri.

1883, May 12.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
11	32.2	149.968	147.614	297.707	11	37.1	117.908	120.322	238.332
11	51.7	147.608	150.031	297.761	11	44.2	120.308	117.930	238.339
11	58.3	150.003	147.631	297.755	12	5.9	117.917	120.300	238.315
12	25.1	147.593	150.000	297.711	12	14.8	120.310	117.933	238.340

in  
Bar. 30.35. Ther. 50.3. Run + 4.5. Images 1-2. Steadiness 3.

$\alpha_2$  Centauri.

1883, May 12.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
17	25.3	149.977	147.607	297.674	17	36.0	117.942	120.331	238.345
17	57.4	147.635	149.991	297.722	17	47.4	120.336	117.962	238.372
18	11.2	150.004	147.624	297.730	18	22.7	117.956	120.336	238.376
18	46.4	147.606	149.981	297.707	18	35.0	120.345	117.934	238.369

Bar. 30.33. Ther. 45.0. Run + 6.6. Images 1-2. Steadiness 2-3.

## Lacaille 9352.

1883, May 12.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
19	8.1	266.709	264.311	531.323	19	17.9	169.609	171.986	341.788
19	41.0	264.321	266.721	531.287	19	27.5	172.002	169.642	341.824
19	51.7	266.720	264.295	531.246	20	2.3	169.617	172.013	341.777
20	33.8	264.349	266.736	531.276	20	11.7	172.027	169.629	341.797

Bar. 30.30. Ther. 46.0. Run + 6.6. Images 1-2. Steadiness 2.

## Sirius.

1883, May 13.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
9	2.1	142.141	139.747	282.002	9	8.3	141.963	144.347	286.438
9	21.3	139.756	142.158	282.038	9	14.4	144.361	141.961	286.454

Bar. 30.15. Ther. 58.5. Run + 4.9. Images 1-2. Steadiness 1-2.

## Sirius.

1883, May 19.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	r	R
9	26.3	144.375	141.950	286.471	9	34.5	139.735	142.200	282.071
9	50.8	141.923	144.364	286.456	9	42.5	142.162	139.748	282.052
9	57.2	144.370	141.905	286.452	10	6.0	139.738	142.170	282.073
10	27.5	141.890	144.336	286.456	10	15.4	142.159	139.711	282.047

Bar. 30.22. Ther. 51.8. Run + 4.8. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1883, May 19.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
11	10.1	120.344	117.930	238.378	11	18.2	147.601	150.026	297.753
11	39.9	117.911	120.344	238.356	11	29.7	150.027	147.582	297.734
11	47.3	120.319	117.904	238.323	11	55.4	147.598	150.026	297.745
12	19.0	117.892	120.355	238.343	12	8.8	150.015	147.595	297.730

Bar. 30.23. Ther. 49.0. Run + 3.4. Images 2. Steadiness 2.

## Lacaille 9352.

1883, May 19.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
19	31.4	172.018	169.594	341.790	19	41.7	264.309	266.734	531.290
20	2.2	169.606	172.043	341.798	19	53.6	266.767	264.326	531.324
20	9.7	172.037	169.617	341.797	20	25.6	264.333	266.775	531.308
20	49.0	169.603	172.041	341.765	20	41.0	266.785	264.331	531.304

in  
Bar. 30.23. Ther. 41.0. Run + 5.3.

## Sirius.

1883, May 20.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
9	36.4	142.172	139.724	282.031	9	46.8	141.923	144.348	286.434
10	7.8	139.725	142.157	282.046	9	54.4	144.368	141.912	286.452
10	17.7	142.149	139.689	282.016	10	25.7	141.895	144.319	286.438
10	45.9	139.691	142.136	282.057	10	34.4	144.316	141.869	286.429

in  
Bar. 30.00.    Ther. 53.0.    Run + 3.3.    Images 2-3.    Steadiness 2-3.

 $\alpha_2$  Centauri.

1883, May 23.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
9	46.6	120.339	117.893	238.333	10	0.2	147.608	150.000	297.732
10	18.5	117.909	120.321	238.333	10	10.3	150.001	147.596	297.721
10	26.3	120.350	117.921	238.374	10	38.2	147.591	150.032	297.748
10	57.3	117.903	120.347	238.352	10	47.8	150.035	147.591	297.750

in  
Bar. 30.05.    Ther. 55.3.    Run + 4.3.    Images 2.    Steadiness 3.

 $\alpha_2$  Centauri.

1883, May 23.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
16	49.9	120.379	117.929	238.376	16	59.5	147.598	150.036	297.718
17	20.4	117.948	120.364	238.381	17	11.8	150.031	147.622	297.740
17	28.5	120.363	117.937	238.370	17	37.7	147.602	150.036	297.728
17	55.4	117.949	120.363	238.386	17	47.3	150.026	147.595	297.713

in  
Bar. 29.98.      Ther. 49.0.      Run + 4.7.

 $\alpha_2$  Centauri.

1883, May 28.

$\alpha^1$				$\beta^1$					
h	m	r	R	h	m	r	R		
17	9.9	234.535	232.095	466.816	17	19.7	211.211	213.649	425.031
17	47.7	232.103	234.477	466.802	17	31.3	213.635	211.227	425.042
17	59.2	234.493	232.090	466.818	18	10.2	211.207	213.622	425.044
18	30.4	232.044	234.476	466.794	18	19.8	213.614	211.195	425.035

in  
Bar. 29.96.    Ther. 57.0.    Run + 5.3.    Images 1-2.    Steadiness 1-2.

$\alpha_1$  Centauri.

1883, May 29.

$\beta^1$			$\alpha^1$		
h	m	R	h	m	R
16 58.2	213.654	211.208	17 19.3	232.104	234.490
17 48.5	211.218	213.625	17 34.6	234.503	232.107
					466.792
					466.824

Bar. 30.34. Ther. 52.0. Run + 5.1. Images 1-2. Steadiness 1-2.

 $\alpha_2$  Centauri.

1883, May 30.

$\alpha^1$			$\beta^1$		
h	m	R	h	m	R
10 23.3	234.469	232.064	10 33.1	211.182	213.619
10 56.1	232.070	234.491	10 43.2	213.609	211.160
11 6.7	234.530	232.088	11 16.4	211.216	213.644
11 41.2	232.096	234.526	11 28.0	213.609	211.236
					425.053
					425.008
					425.065
					425.039

Bar. 30.15. Ther. 56.5. Run + 4.0.

 $\alpha_3$  Centauri.

1883, May 30.

$\alpha^1$			$\beta^1$		
h	m	R	h	m	R
17 16.9	234.522	232.151	17 27.5	211.241	213.623
17 47.2	232.072	234.504	17 39.2	213.629	211.161
17 55.7	234.493	232.012	18 12.1	211.131	213.638
18 34.0	232.060	234.508	18 21.8	213.628	211.197
					425.042
					424.978
					424.988
					425.055

Bar. 30.05. Ther. 55.0. Run + 3.9.

 $\alpha_2$  Centauri.

1883, June 4.

$\alpha^1$			$\beta^1$		
h	m	R	h	m	R
10 39.2	232.097	234.498	10 50.1	213.632	211.204
11 9.5	234.510	232.073	10 58.9	211.189	213.619
11 21.7	232.099	234.462	11 30.6	213.660	211.251
11 51.7	234.522	232.092	11 41.7	211.211	213.630
					425.072
					425.034
					425.106
					425.026

Bar. 30.25. Ther. 49.8. Run + 5.4.

 $\alpha_2$  Centauri.

1883, June 10.

$\beta^1$			$\alpha^1$		
h	m	R	h	m	R
10 53.5	211.233	213.616	10 59.6	234.452	232.059
11 15.1	213.630	211.187	11 6.8	232.051	234.484
11 20.9	211.190	213.625	11 29.2	234.508	232.078
11 45.4	213.653	211.225	11 37.7	232.094	234.543
					466.746
					466.763
					466.794
					466.837

Bar. 30.34. Ther. 52.5. Run + 4.8. Images 2. Steadiness 2.

$\alpha_2$  Centauri.

1883, June 10.

$\beta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	r	R
18	3 <sup>2</sup>	211 <sup>202</sup>	213 <sup>663</sup>	425 <sup>081</sup>	18	10 <sup>1</sup>	234 <sup>500</sup>	232 <sup>048</sup>	466 <sup>805</sup>
18	28 <sup>4</sup>	213 <sup>604</sup>	211 <sup>202</sup>	425 <sup>050</sup>	18	18 <sup>4</sup>	232 <sup>034</sup>	234 <sup>498</sup>	466 <sup>800</sup>
18	38 <sup>2</sup>	211 <sup>171</sup>	213 <sup>609</sup>	425 <sup>035</sup>	18	46 <sup>0</sup>	234 <sup>414</sup>	232 <sup>020</sup>	466 <sup>743</sup>
19	1 <sup>0</sup>	213 <sup>636</sup>	211 <sup>131</sup>	425 <sup>053</sup>	18	54 <sup>1</sup>	232 <sup>060</sup>	234 <sup>482</sup>	466 <sup>865</sup>
in									
Bar. 30 <sup>15</sup> .		Ther. 42 <sup>3</sup> .		Run + 4 <sup>4</sup> .	Images 2-3.		Steadiness 2-3.		

 $\alpha_2$  Centauri.

1883, June 13.

$\alpha^1$					$\beta^1$				
h	m	r	r	R	h	m	r	r	R
11	10 <sup>4</sup>	232 <sup>075</sup>	234 <sup>515</sup>	466 <sup>817</sup>	11	16 <sup>8</sup>	213 <sup>631</sup>	211 <sup>210</sup>	425 <sup>051</sup>
11	32 <sup>5</sup>	234 <sup>476</sup>	232 <sup>094</sup>	466 <sup>778</sup>	11	23 <sup>4</sup>	211 <sup>237</sup>	213 <sup>644</sup>	425 <sup>085</sup>
11	39 <sup>9</sup>	232 <sup>084</sup>	234 <sup>495</sup>	466 <sup>781</sup>	11	46 <sup>5</sup>	213 <sup>652</sup>	211 <sup>239</sup>	425 <sup>075</sup>
12	1 <sup>5</sup>	234 <sup>494</sup>	232 <sup>114</sup>	466 <sup>793</sup>	11	53 <sup>7</sup>	211 <sup>233</sup>	213 <sup>665</sup>	425 <sup>077</sup>
in									
Bar. 30 <sup>37</sup> .		Ther. 45 <sup>8</sup> .		Run + 4 <sup>1</sup> .	Images 1.		Steadiness 2.		

 $\alpha_2$  Centauri.

1883, June 13.

$\alpha^1$				$\beta^1$					
h	m	r	R	h	m	r	R		
17	53 <sup>0</sup>	232 <sup>106</sup>	234 <sup>471</sup>	466 <sup>817</sup>	17	59 <sup>9</sup>	213 <sup>655</sup>	211 <sup>241</sup>	425 <sup>113</sup>
18	17 <sup>0</sup>	234 <sup>485</sup>	232 <sup>053</sup>	466 <sup>810</sup>	18	9 <sup>2</sup>	211 <sup>203</sup>	213 <sup>649</sup>	425 <sup>078</sup>
18	22 <sup>8</sup>	232 <sup>050</sup>	234 <sup>472</sup>	466 <sup>802</sup>	18	31 <sup>6</sup>	213 <sup>620</sup>	211 <sup>211</sup>	425 <sup>083</sup>
18	55 <sup>3</sup>	234 <sup>437</sup>	232 <sup>026</sup>	466 <sup>794</sup>	18	41 <sup>5</sup>	211 <sup>213</sup>	213 <sup>634</sup>	425 <sup>111</sup>
in									
Bar. 30 <sup>37</sup> .		Ther. 37 <sup>5</sup> .		Run + 4 <sup>8</sup> .		Images 1.		Steadiness 1-2.	

 $\alpha_2$  Centauri.

1883, June 18.

$\beta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	r	R
11	20 <sup>2</sup>	211 <sup>212</sup>	213 <sup>622</sup>	425 <sup>040</sup>	11	25 <sup>4</sup>	234 <sup>478</sup>	232 <sup>058</sup>	466 <sup>749</sup>
11	39 <sup>4</sup>	213 <sup>659</sup>	211 <sup>243</sup>	425 <sup>091</sup>	11	32 <sup>6</sup>	232 <sup>078</sup>	234 <sup>487</sup>	466 <sup>771</sup>
11	43 <sup>4</sup>	211 <sup>234</sup>	213 <sup>646</sup>	425 <sup>066</sup>	11	50 <sup>5</sup>	234 <sup>515</sup>	232 <sup>091</sup>	466 <sup>798</sup>
12	7 <sup>9</sup>	213 <sup>657</sup>	211 <sup>242</sup>	425 <sup>067</sup>	11	59 <sup>6</sup>	232 <sup>084</sup>	234 <sup>503</sup>	466 <sup>772</sup>
in									
Bar. (30 <sup>32</sup> ).		Ther. 48 <sup>5</sup> .		Run + 4 <sup>0</sup> .	Images 1-2.		Steadiness 2-3.		

 $\alpha_2$  Centauri.

1883, June 19.

$\alpha^1$				$\beta^1$					
h	m	r	R	h	m	r	R		
11	27 <sup>6</sup>	232 <sup>095</sup>	234 <sup>510</sup>	466 <sup>814</sup>	11	37 <sup>3</sup>	213 <sup>622</sup>	211 <sup>248</sup>	425 <sup>059</sup>
11	49 <sup>1</sup>	234 <sup>490</sup>	232 <sup>083</sup>	466 <sup>765</sup>	11	43 <sup>3</sup>	211 <sup>235</sup>	213 <sup>653</sup>	425 <sup>073</sup>
11	56 <sup>0</sup>	232 <sup>114</sup>	234 <sup>526</sup>	466 <sup>827</sup>	12	3 <sup>2</sup>	213 <sup>669</sup>	211 <sup>247</sup>	425 <sup>086</sup>
12	17 <sup>5</sup>	234 <sup>522</sup>	232 <sup>088</sup>	466 <sup>782</sup>	12	10 <sup>8</sup>	211 <sup>253</sup>	213 <sup>656</sup>	425 <sup>074</sup>
in									
Bar. 30 <sup>24</sup> .		Ther. 51 <sup>5</sup> .		Run + 3 <sup>5</sup> .		Images 1-2.		Steadiness 2.	



$\alpha_2$  Centauri.

1883, June 19.

$\alpha^1$				$\beta^1$			
h	m	r	R	h	m	r	R
17	35.2	232.069	234.487	17	41.6	213.669	211.254
17	58.7	234.497	232.116	17	49.8	211.210	213.674
18	4.1	232.067	234.482	18	10.5	213.652	211.251
18	30.0	234.463	232.035	18	19.0	211.234	213.616
in							
Bar. 30.30.		Ther. 52.3.		Run + 4.2.		Images 2.	
						Steadiness 2.	

 $\alpha_2$  Centauri.

1883, June 20.

$\beta^1$				$\alpha^1$			
h	m	r	R	h	m	r	R
17	53.9	211.229	213.628	18	0.3	234.486	232.059
18	13.2	213.638	211.198	18	7.3	232.066	234.482
18	19.6	211.222	213.619	18	27.5	234.463	232.006
18	50.0	213.629	211.228	18	37.5	232.043	234.479
in							
Bar. 30.37.		Ther. 55.0.		Run + 4.0.			

## Lacaille 9352.

1883, September 13.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
18	46.0	266.793	264.346	18	53.7	169.513	171.933
19	12.8	264.402	266.794	19	3.5	171.954	169.531
19	22.0	266.804	264.394	19	31.9	169.543	171.970
19	55.0	264.429	266.838	19	43.0	171.967	169.554
in							
Bar. 30.44.		Ther. 52.5.		Run + 6.0.		Images 2.	
						Steadiness 2.	

## Lacaille 9352.

1883, September 14.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
18	41.2	171.952	169.509	18	49.5	264.327	266.800
19	6.7	169.513	171.949	18	59.0	266.793	264.395
in							
Bar. 30.34.		Ther. 53.0.		Run + 6.1.		Images 2.	
						Steadiness 2.	

## Lacaille 9352.

1883, September 14.

$\beta$				$\alpha$			
h	m	r	R	h	m	r	R
2	39.5	171.963	169.546	2	56.4	264.391	266.818
3	21.1	169.517	171.976	3	11.9	266.832	264.382
3	31.3	171.981	169.517	3	41.3	264.396	266.807
4	7.4	169.519	171.937	3	56.0	266.822	264.375
in							
Bar. 30.25.		Ther. 47.8.		Run + 5.6.		Images 2-3.	
						Steadiness 2-3.	

Lacaille 9352. 1883, September 16.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
18	32.1	266.744	264.372	531.509	18	57.8	169.550	171.937	341.706
19	12.8	264.394	266.797	531.478	19	6.3	171.922	169.516	341.644
19	20.9	266.812	264.378	531.463	19	31.3	169.516	171.952	341.640
19	47.7	264.386	266.855	531.472	19	39.3	171.977	169.561	341.702

in

Bar. 30" 13. Ther. 54° 5. Run + 5' 2. Images 2-3. Steadiness 2-3.

Bar. 30.13. Ther. 54.5. Run + 5.2. Images 2-3. Steadiness 2-3.

Lacaille 9352. 1883, September 19.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
18	30.6	171.901	169.485	341.665	18	42.2	264.346	266.776	531.488
19	1.6	169.518	171.905	341.638	18	52.5	266.771	264.366	531.474
19	11.8	171.947	169.552	341.698	19	20.2	264.380	266.778	531.436
19	52.6	169.554	171.953	341.662	19	42.0	266.843	264.461	531.546
in				°					
Bar. 30.35.				Ther. 52.5.				Run + 6.8.	

Bar. 30.35. Ther. 52.5. Run + 6.8.

Lacaille 9352. 1883, September 19.

$\beta$					$\alpha$				
h	m	r	R		h	m	r	R	
2	30.2	171.967	169.551	341.664	2	44.5	264.387	266.818	
2	32.0	169.543	171.969	341.661	3	5.5	266.845	264.415	
<div> <div>Bar. 30.27.</div> <div>Ther. 52.8.</div> <div>Run + 6.4.</div> </div>					<div> <div>Images 3.</div> <div>Steadiness 3.</div> </div>				

Bar. 30.27. Ther. 52.8. Run + 6.4. Images 3. Steadiness 3.

Lacaille 9352. 1883, September 20.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
18	43.9	171.926	169.512	341.682	18	54.8	264.368	266.798	531.492
19	11.2	169.520	171.975	341.692	19	3.7	266.790	264.399	531.494
19	22.2	171.947	169.538	341.667	19	32.7	264.435	266.815	531.501
19	55.6	169.551	171.961	341.661	19	43.3	266.813	264.428	531.477

Bar. 30.13. Ther. 56.0. Run + 6.4. Images 2. Steadiness 2.

Lacaille 9352. 1883, September 20.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	R	
2	30.0	171.987	169.547	341.680	2	41.1	264.422	266.816	531.483
3	0.4	169.547	171.980	341.693	2	53.1	266.828	264.429	531.517
3	7.1	171.992	169.507	341.671	3	19.9	264.392	266.812	531.497
3	40.1	169.495	171.950	341.649	3	31.5	266.836	264.398	531.547

Bar. 30.13. Ther. 53.8. Run + 5.7. Images 2. Steadiness 2.

Lacaille 9352.

1883, September 24.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
18	52.8	171.927	169.510	341.665	19	5.4	264.337	266.802	531.442
19	25.2	169.508	171.958	341.645	19	14.5	266.801	264.367	531.453
19	33.5	171.958	169.544	341.672	19	45.8	264.385	266.816	531.436
20	2.4	169.534	171.942	341.621					
in									
Bar. 30.30.				Ther. 56.0.				Run + 6.1.	

Lacaille 9352.

1883, September 24.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
2	32.6	171.972	169.533	341.656	2	41.8	264.431	266.820	531.502
3	0.9	169.515	171.954	341.640	2	52.1	266.828	264.411	531.502
3	10.1	171.948	169.519	341.646	3	21.2	264.369	266.822	531.494
3	42.3	169.509	171.949	341.668	3	31.5	266.793	264.384	531.495
Bar. 30.32.				Ther. 46.3.				Run + 5.2.	
								Images 1-2.	
								Steadiness 1-2.	

Lacaille 9352.

1883, September 25.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
18	52.3	266.780	264.361	531.473	18	57.4	169.514	171.933	341.666
19	13.3	264.386	266.808	531.478	19	3.4	171.955	169.502	341.666
19	18.1	266.838	264.414	531.528	19	24.9	169.528	171.962	341.668
19	40.5	264.376	266.842	531.458	19	31.7	171.953	169.524	341.648
in									
Bar. 30.30.		Ther. 59.0.		Run + 5.6.		Images 2-3.		Steadiness 2-3.	

Lacaille 9352.

1883, September 25.

$\alpha$					$\beta$						
h	m	r	r	R	h	m	r	r	R		
2	50.7	266.870	264.345	531.470	3	6.2	169.546	171.996	341.712		
3	35.0	264.420	266.823	531.559	3	21.5	171.945	169.518	341.646		
Bar. 30.15.					Ther. 56.8.					Run + 7.7.	
										Images 3.	
										Steadiness 2.	

Lacaille 9352.

1883, September 29.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
2	29.5	171.984	169.549	341.683	2	39.5	264.417	266.843	531.511
3	4.1	169.523	171.929	341.623	2	50.6	266.838	264.414	531.515
3	11.6	171.964	169.543	341.688	3	21.9	264.407	266.803	531.516
3	42.5	169.524	171.956	341.692	3	32.8	266.841	264.335	531.499
in									
Bar. 30.39.		Ther. 43.5.		Run + 6.6.		Images 2-3.		Steadiness 2-3.	

Lacaille 9352.

1883, September 30.

$\beta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
19	21.4	169.505	171.941	341.633	19	29.3	266.852	264.417	531.530
19	41.9	171.932	169.534	341.630	19	35.3	264.385	266.821	531.458
in									
Bar. 30.44.					Ther. 52.8.				
Run + 5.7.					Images 3.				
Steadiness 3.									

Lacaille 9352.

1883, October 3.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
19	29.8	171.971	169.531	341.672	19	42.9	264.430	266.877	531.538
19	56.3	169.510	171.962	341.618	19	50.4	266.851	264.429	531.504
20	0.8	171.953	169.504	341.599	20	8.4	264.397	266.892	531.494
20	21.5	169.543	171.985	341.657	20	14.9	266.889	264.418	531.505
in									
Bar. 30.00.				Ther. 62.4.					
Run + 4.9.				Images 3.					
Steadiness 3.									

Lacaille 9352.

1883, October 3.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
1	26.3	171.978	169.537	341.633	1	35.3	264.429	266.907	531.529
1	54.3	169.537	171.976	341.640	1	44.0	266.887	264.432	531.517
2	2.0	171.998	169.536	341.665	2	11.1	264.423	266.898	531.538
2	27.4	169.542	171.976	341.660	2	19.8	266.906	264.454	531.584
in									
Bar. 29.96.				Ther. 53.8.					
Run + 6.1.				Images 1-2.					
Steadiness 2.									

Lacaille 9352.

1883, October 5.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
19	52.5	266.862	264.414	531.501	20	2.4	169.515	171.985	341.644
20	15.6	264.429	266.863	531.493	20	9.6	171.966	169.522	341.627
20	21.1	266.911	264.414	531.522	20	28.7	169.515	171.984	341.627
20	47.9	264.402	266.886	531.467	20	37.7	172.003	169.543	341.669
in									
Bar. 30.32.				Ther. 57.5.					
Run + 6.2.				Images 3.					
Steadiness 3.									

Lacaille 9352.

1883, October 5.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
1	32.9	266.897	264.422	531.512	1	42.8	169.552	172.012	341.688
2	1.6	264.399	266.864	531.474	1	52.3	171.993	169.556	341.676
2	13.8	266.860	264.394	531.474	2	25.0	169.544	171.993	341.679
3	9.0	264.340	266.819	531.438	2	41.0	172.006	169.505	341.663
in									
Bar. (30.32).				Ther. 57.3.					
Run + 6.6.				Images 2-3.					
Steadiness 2-3.									

Lacaille 9352.

1883, October 12.

$\beta$				$\alpha$					
h	m	r	R	h	m	r	R		
1	33.0	171.991	169.527	341.641	1	42.1	264.424	266.890	531.515
2	2.7	169.516	171.999	341.650	1	50.3	266.890	264.433	531.530
2	9.5	171.974	169.524	341.635	2	23.2	264.429	266.860	531.521
2	45.5	169.520	171.950	341.627	2	36.5	266.860	264.408	531.512
in									
Bar. 30.15.				Ther. 47.0.					
Run + 7.3.				Images 2.					
Steadiness 2.									

Lacaille 9352.

1883, October 14.

$\alpha$				$\beta$			
h	m	r	R	h	m	r	R
2	8.9	264.407	266.883	2	18.2	172.002	169.518
2	33.5	266.879	264.416	2	25.5	169.520	171.985
2	41.5	264.415	266.883	2	51.3	171.975	169.549
3	9.3	266.867	264.367	2	59.6	169.485	171.990
in							
Bar. 30.07.				Ther. 58.0.			
Run + 5.6.							

ε Indi.

1883, October 21.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
0	47.6	84.355	81.923	166.349	0	54.5	101.050	103.523	204.655
1	9.3	81.928	84.370	166.376	1	2.0	103.510	101.084	204.679
1	16.3	84.352	81.924	166.357	1	25.6	101.052	103.531	204.679
1	46.3	81.920	84.350	166.364	1	37.0	103.550	101.101	(204.753)
in									
Bar. 30.17.				Ther. 54.5.					
Run + 3.8.				Images 2-3.					
Steadiness 3.									

ε Indi.

1883, October 22.

$\beta$				$\alpha$				
h	m	r	R	h	m	r	R	
0	44.6	103.513	101.092	0	52.5	81.928	84.362	166.362
1	5.9	103.516	101.098	1	15.0	81.936	84.367	166.383
1	22.3	103.497	101.086	1	29.3	81.908	84.355	166.349
1	40.9	101.071	103.491	1	35.1	84.345	81.927	166.360
in								
Bar. 30.07.				Ther. 54.0.				
Run + 4.4.				Images 2.				
Steadiness 2-3.								

ε Indi.

1883, October 28.

$\alpha$				$\beta$					
h	m	r	R	h	m	r	R		
0	53.9	84.345	81.941	166.358	1	5.9	101.065	103.548	204.699
1	40.1	81.911	84.354	166.354	1	24.3	103.529	101.091	204.715
in									
Bar. 30.27.				Ther. 62.3.					
Run + 5.3.				Images 3.					
Steadiness 3.									

ε Indi.

1883, October 29.

$\alpha$					$\beta$				
h	m	r	r	R	h	m	r	R	
1	1'7	81'939	84'367	166'379	1	11'5	103'522	101'080	204'689
1	37'0	84'376	81'940	166'403	1	23'5	101'059	103'521	204'672
1	45'7	81'924	84'358	166'372	2	0'1	103'514	101'057	204'684
2	26'8	84'342	81'917	166'372	2	12'7	101'069	103'465	204'657

Bar. 30<sup>in</sup>·04. Ther. 66<sup>o</sup>·5. Run + 5'0. Images 2-3. Steadiness 2-3.

ε Indi.

1883, November 6.

$\beta$				$\alpha$				
h	m	r	R	h	m	r	R	
1	31'2	101'055	103'480	1	42'4	84'353	81'937	166'382
2	6'7	103'515	101'046	1	54'1	81'929	84'336	166'362
2	14'3	101'059	103'484	2	23'9	84'355	81'876	166'345
2	44'2	103'466	101'045	2	34'3	81'917	84'332	166'370

Bar. 30<sup>in</sup>·20. Ther. 54<sup>o</sup>·0. Run + 4'7. Images 1-2. Steadiness 2.

**ELKIN'S  
HELIOMETER OBSERVATIONS.**





**MR. ELKIN'S OBSERVATIONS.**

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$\zeta$  Tucanae.

1881, March 12.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
7	15.3	200.704	202.712	403.690	7	28.6	195.553	197.611	393.487
7	20.4	202.768	200.766	403.825	7	35.1	197.630	195.489	393.466
8	2.2	200.559	202.624	403.667	7	45.5	195.475	197.478	393.344
8	9.7	202.581	200.628	403.741	7	52.6	197.506	195.491	393.422

in  
Bar. 30.04. Ther. 65.4. Run + 2.9. Images 3. Steadiness 3. F.P. 9.58.

## Sirius.

1881, March 12.

<i>a</i>					<i>b</i>				
h	m	r	R		h	m	r	R	
9	36.8	194.932	196.896	391.960	9	52.9	191.668	193.595	385.403
9	43.9	196.910	194.850	391.893	10	2.2	193.581	191.569	385.296
10	29.0	194.895	196.875	391.933	10	13.1	191.619	193.618	385.390
10	35.6	196.844	194.850	391.864	10	19.9	193.609	191.607	385.375

in  
Bar. 30.05. Ther. 65.6. Run + 3.9. Images 2-3. Steadiness 3. F.P. 9.58.

 $\epsilon$  Eridani.

1881, March 16.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
7	57.7	254.545	256.614	511.360	8	14.0	268.129	270.213	538.541
8	4.8	256.584	254.501	511.287	8	20.8	270.240	268.131	538.571
8	50.1	254.527	256.583	511.319	8	32.5	268.145	270.202	538.548
8	56.9	256.579	254.507	511.295	8	40.4	270.207	268.140	538.548

in  
Bar. 30.15. Ther. 58.8. Run + 3.0. Images 1. Steadiness 2. F.P. 9.70.

## Sirius.

1881, March 16.

<i>b</i>					<i>a</i>				
h	m	r	R		h	m	r	R	
9	26.8	191.614	193.670	385.415	9	45.6	194.857	196.880	391.874
9	35.0	193.671	191.638	385.443	9	53.4	196.917	194.865	391.922
10	20.9	191.591	193.657	385.410	10	4.3	194.822	196.910	391.879
10	27.6	193.630	191.629	385.428	10	10.6	196.916	194.814	391.881

in  
Bar. 30.16. Ther. 56.7. Run + 0.5. Images 1. Steadiness 2. F.P. 9.70.

 $\alpha_2$  Centauri.

1881, March 17.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
9	5.6	241.042	243.080	484.260	9	20.4	192.132	194.131	386.371
9	11.6	243.154	241.056	484.347	9	27.9	194.193	192.197	386.499
9	58.0	241.089	243.096	484.320	9	38.3	192.158	194.252	386.520
10	4.7	243.102	241.056	484.294	9	46.9	194.250	192.136	386.497

in  
Bar. 30.18. Ther. 60.4. Run + 2.7. Images 2. Steadiness 3. F.P. 9.70.

## Canopus.

1881, March 17.

b				a					
h	m	r	R	h	m	r	R		
10	43.3	45.323	47.369	92.751	11	1.4	52.699	54.797	107.574
10	50.7	47.377	45.305	92.743	11	9.3	54.811	52.735	107.629
11	45.2	45.326	47.394	92.801	11	26.7	52.736	54.778	107.607
11	52.1	47.328	45.294	92.706	11	35.9	54.788	52.752	107.639

in  
Bar. 30.17. Ther. 60.4. Run + 3.3. Images 2-3. Steadiness 2-3. F.P. 9.70.

## Sirius.

1881, March 18.

a				b					
h	m	r	R	h	m	r	R		
8	50.1	196.880	194.864	391.863	9	13.2	193.675	191.605	385.406
8	56.4	194.867	196.912	391.899	9	20.3	191.613	193.700	385.441
9	45.6	196.913	194.854	391.904	9	30.1	193.666	191.612	385.409
9	53.9	194.899	196.936	391.975	9	36.8	191.612	193.677	385.424

in  
Bar. 30.05. Ther. 56.9. Run + 1.5. Images 1. Steadiness 2. F.P. 9.70.

## α Centauri.

1881, March 19.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
9	53.9	194.193	192.142	386.446	10	7.9	243.113	241.046	484.295
9	59.9	192.136	194.221	386.470	10	14.5	241.048	243.145	484.330
10	41.7	194.207	192.199	386.527	10	25.7	243.095	241.063	484.296
10	47.2	192.156	194.215	386.492	10	32.2	241.057	243.099	484.296

in  
Bar. 29.98. Ther. 59.6. Run + 3.1. Images 1. Steadiness 2-3. F.P. 9.70.

## Canopus.

1881, March 19.

a				b					
h	m	r	R	h	m	r	R		
11	31.2	52.730	54.783	107.608	11	44.1	45.296	47.404	92.781
11	37.3	54.790	52.724	107.614	11	50.9	47.379	45.319	92.781
12	15.4	52.719	54.732	107.582	12	1.2	45.302	47.350	92.741
12	21.4	54.779	52.669	107.587	12	7.8	47.341	45.297	92.730

in  
Bar. 29.97. Ther. 59.7. Run + 2.7. Images 1. Steadiness 2. F.P. 9.70.

## ε Eridani.

1881, March 22.

b					a				
h	m	r	r	R	h	m	r	R	
8	14.6	268.137	270.218	538.551	8	31.9	254.574	256.589	511.367
8	20.7	270.187	268.161	538.544	8	42.8	256.629	254.578	511.412
9	15.1	268.198	270.215	538.609	8	57.7	254.536	256.581	511.322
9	23.0	270.218	268.153	538.566	9	6.4	256.611	254.488	511.304

in  
Bar. 29.91. Ther. 63.1. Run + 3.1. Images 3. Steadiness 2. F.P. 9.70.

$\alpha_2$  Centauri.

1881, March 22.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
11	14.1	241.045	243.121	484.313	11	32.0	192.152	194.211	386.492
11	21.9	243.137	241.114	484.399	11	39.5	194.220	192.144	386.495
12	21.3	241.119	243.173	484.450	11	51.4	192.115	194.240	386.486
12	28.6	243.116	241.069	484.344	12	2.3	194.246	192.129	386.507

in  
Bar. 29.90. Ther. 59.6. Run + 3.7. Images 3. Steadiness 3. F.P. 9.70.

## Sirius.

1881, March 24.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
9	23.7	193.518	191.586	385.232	9	37.7	196.909	194.830	391.873
9	30.0	191.582	193.677	385.393	9	44.6	194.880	196.945	391.962
10	12.8	193.629	191.626	385.411	9	55.5	196.909	194.885	391.935
10	20.4	191.617	193.665	385.444	10	3.8	194.901	196.869	391.917

in  
Bar. 30.25. Ther. 59.1. Run + 2.0. Images 3. Steadiness 3. F.P. 9.70.

 $\alpha_2$  Centauri.

1881, March 24.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
10	47.0	243.081	241.071	484.296	11	4.8	194.231	192.161	386.517
10	55.3	241.067	243.092	484.304	11	13.6	192.190	194.208	386.525
11	41.9	243.106	241.032	484.292	11	24.2	194.194	192.115	386.437
11	49.2	241.021	243.111	484.287	11	31.0	192.139	194.225	386.494

in  
Bar. 30.23. Ther. 59.8. Run + 4.0. Images 2-3. Steadiness 2-3. F.P. 9.70.

 $\alpha_2$  Centauri.

1881, March 25.

<i>a</i>				<i>b</i>					
h	m	r	R	h	m	r	R		
9	50.8	194.199	192.167	386.476	10	7.6	243.092	241.060	484.286
9	57.4	192.136	194.198	386.445	10	16.8	241.061	243.099	484.296
10	47.0	194.223	192.157	386.500	10	30.2	243.108	241.059	484.305
10	56.1	192.164	194.219	386.505	10	38.2	241.051	243.113	484.305

in  
Bar. 29.94. Ther. 65.1. Run + 2.1. Images 2. Steadiness 2-3. F.P. 9.70.

## Sirius.

1881, March 30.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
9	9.8	194.912	196.969	392.005	9	25.7	191.615	193.666	385.410
9	17.2	196.975	194.871	391.972	9	32.0	193.696	191.594	385.422
9	56.5	194.932	196.928	392.002	9	41.9	191.638	193.686	385.461
10	4.6	196.961	194.873	391.980	9	47.5	193.647	191.576	385.363

in  
Bar. 30.15. Ther. 58.3. Run + 1.5. Images 1. Steadiness 2. F.P. 9.70.

$\alpha_2$  Centauri.

1881, March 30.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
10	30.0	241.037	243.141	484.319	10	47.5	192.151	194.207	386.480
10	37.0	243.111	241.064	484.319	10	56.0	194.216	192.139	386.479
11	29.9	241.037	243.134	484.323	11	8.7	192.131	194.234	386.491
11	38.2	243.129	241.025	484.309	11	16.6	194.232	192.166	386.525

in  
Bar. 30.15. Ther. 58.4. Run + 3.5. Images 1-2. Steadiness 2. F.P. 9.70.

 $\epsilon$  Eridani.

1881, April 1.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
8	20.4	256.598	254.465	511.271	8	40.9	270.312	268.099	538.614
8	28.9	254.551	256.599	511.359	8	53.0	268.100	270.289	538.592
9	29.2	256.670	254.534	511.410	9	5.2	270.201	268.145	538.547
9	35.7	254.554	256.644	511.403	9	14.7	268.146	270.292	538.638

in  
Bar. 30.13. Ther. 54.8. Run + 3.6. Images 3-4. Steadiness 4. F.P. 9.70.

 $\epsilon$  Eridani.

1881, April 2.

<i>b</i>					<i>a</i>				
h	m	r	R		h	m	r	R	
8	26.2	270.182	268.095	538.481	8	38.2	256.591	254.513	511.315
8	31.5	268.081	270.205	538.490	8	42.9	254.491	256.602	511.304
9	2.7	270.204	268.120	538.528	8	50.5	256.569	254.491	511.271
9	7.5	268.103	270.195	538.501	8	55.7	254.497	256.585	511.293

in  
Bar. 30.31. Ther. 54.3. Run + 4.9. Images 1. Steadiness 2. F.P. 9.70.

## Sirius.

1881, April 2.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
9	25.0	193.658	191.611	385.400	9	41.8	196.927	194.864	391.929
9	32.8	191.598	193.676	385.408	9	49.1	194.825	196.933	391.899
10	19.4	193.680	191.557	385.401	10	3.6	196.910	194.851	391.910
10	25.9	191.557	193.641	385.367	10	11.1	194.856	196.925	391.934

in  
Bar. 30.33. Ther. 54.2. Run + 1.0. Images 1. Steadiness 1. F.P. 9.70.

## Sirius.

1881, April 4.

<i>a</i>					<i>b</i>				
h	m	r	R		h	m	r	R	
10	29.4	196.903	194.848	391.917	10	48.0	193.678	191.563	385.433
10	36.8	194.843	196.956	391.973	10	54.4	191.579	193.711	385.490
11	22.0	196.932	194.825	391.997	11	4.8	193.629	191.566	385.411
11	28.3	194.860	196.875	391.991	11	13.5	191.557	193.619	385.409

in  
Bar. 30.27. Ther. 59.8. Run + 0.9. Images 3. Steadiness 3. F.P. 9.70.

ε Indi.

1881, April 4.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
17	37.8	202.004	204.127	406.353	17	56.4	228.709	230.777	459.718
17	45.9	204.117	202.000	406.326	18	7.5	230.766	228.706	459.688
18	28.6	202.063	204.093	406.321	18	15.2	228.677	230.836	459.719
18	33.7	204.100	201.996	406.257	18	20.7	230.776	228.715	459.690

in  
Bar. 30.19. Ther. 59.4. Run + 1.5. Images 2. Steadiness 2-3. F.P. 9.70.

Sirius.

1881, April 6.

a				b					
h	m	r	R	h	m	r	R		
9	28.7	196.936	194.863	391.928	9	42.3	193.678	191.608	385.421
9	34.9	194.827	196.981	391.939	9	49.2	191.596	193.674	385.410
10	17.4	196.926	194.820	391.900	9	57.8	193.708	191.561	385.413
10	23.0	194.809	196.954	391.921	10	3.7	191.593	193.694	385.435

in  
Bar. 30.13. Ther. 61.9. Run + 2.0. Images 2. Steadiness 2. F.P. 9.70.

α<sub>2</sub> Centauri.

1881, April 6.

<i>a</i>					<i>b</i>				
h		r	r	R	h		r	r	R
10	45.8	192.144	194.278	386.543	11	2.0	241.023	243.164	484.332
10	51.7	194.275	192.139	386.536	11	7.6	243.143	241.023	484.312
11	31.7	192.138	194.261	386.528	11	15.3	241.039	243.124	484.310
11	40.3	194.265	192.119	386.514	11	21.7	243.122	241.028	484.298

in  
Bar. 30.12. Ther. 61.8. Run + 2.6. Images 1. Steadiness 2. F.P. 9.72.

Sirius.

1881, April 7.

b				a					
h	m	r	R	h	m	r	R		
8	38.8	191.573	193.704	385.394	8	53.4	194.819	196.971	391.910
8	46.1	193.719	191.573	385.411	8	58.9	196.994	194.843	391.958
9	23.8	191.583	193.699	385.412	9	7.9	194.839	196.970	391.933
9	31.3	193.711	191.584	385.428	9	14.9	196.951	194.858	391.935

in  
Bar. 30.18. Ther. 58.3. Run + 3.4. Images 2. Steadiness 2. F.P. 9.72.

α<sub>2</sub> Centauri.

1881, April 7.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
9	54.6	243.156	240.974	484.266	10	10.0	194.278	192.112	386.506
10	1.4	241.013	243.182	484.331	10	16.8	192.143	194.284	386.544
10	42.1	243.130	241.015	484.289	10	25.7	194.248	192.134	386.501
10	50.8	241.024	243.158	484.327	10	31.6	192.138	194.258	386.516

in  
Bar. 30.19. Ther. 57.4. Run + 1.7. Images 2. Steadiness 2. F.P. 9.72.

## Sirius.

1881, April 9.

a				b			
h	m	r	R	h	m	r	R
9	6.9	194.833	196.957	9	23.3	191.632	193.685
9	14.7	196.943	194.848	9	29.6	193.690	191.599
9	52.5	194.819	196.933	9	39.0	191.539	193.704
9	58.7	196.972	194.826	9	45.2	193.699	191.553

Bar. 30.15. Ther. 58°. Run + 3.9. Images 2. Steadiness 2. F.P. 9.72.

## Canopus.

1881, April 9.

a				b			
h	m	r	R	h	m	r	R
10	25.4	52.712	54.863	10	40.4	45.282	47.406
10	31.9	54.850	52.735	10	47.6	47.387	45.284
11	14.2	52.734	54.828	11	2.1	45.291	47.363
11	21.4	54.830	52.707	11	8.3	47.407	45.294

Bar. 30.15. Ther. 58°. Run + 2.2. Images 2. Steadiness 2. F.P. 9.72.

## ε Indi.

1881, April 9.

a				b			
h	m	r	R	h	m	r	R
17	59.8	230.764	228.551	18	17.5	204.183	201.863
18	5.0	228.566	230.873	18	24.1	201.884	204.182
18	45.5	230.838	228.519	18	31.9	204.197	201.876
18	51.8	228.523	230.828	18	38.2	201.901	204.178

Bar. 30.11. Ther. 58°. Run + 1.6. Images 2. Steadiness 2.

## Sirius.

1881, April 10.

b				a			
h	m	r	R	h	m	r	R
8	52.6	193.790	191.492	9	6.0	196.999	194.750
8	58.7	191.493	193.805	9	11.3	194.771	197.065
9	32.7	193.768	191.504	9	19.4	197.046	194.754
9	39.6	191.496	193.792	9	25.2	194.755	197.031

Bar. 30.07. Ther. 56°. Run + 2.6. Images 2. Steadiness 2. F.P. 9.72.

 α<sub>2</sub> Centauri.

1881, April 10.

a				b			
h	m	r	R	h	m	r	R
9	59.3	192.071	194.331	10	16.4	240.956	243.253
10	6.8	194.329	192.046	10	22.1	243.234	240.956
10	45.1	192.058	194.317	10	30.6	240.942	243.241
10	51.8	194.344	192.064	10	36.6	243.240	240.950

Bar. 30.07. Ther. 54.9. Run + 3.2. Images 2. Steadiness 2. F.P. 9.72.

## Sirius.

1881, April 12.

a				b			
h	m	r	R	h	m	r	R
8	58.1	194.784	197.045	9	12.0	191.544	193.801
9	4.7	197.039	194.781	9	20.0	193.818	191.557
9	55.9	194.805	197.016	9	41.3	191.501	193.706
10	3.8	197.004	194.765	9	46.9	193.754	191.515
			391.949				385.471
			391.942				385.503
			391.964				385.404
			391.916				385.409

in  
Bar. 30.13. Ther. 58.5. Run + 1.5. Images 2. Steadiness 2. F.P. 9.74.

 $\alpha_2$  Centauri.

1881, April 12.

b				a			
h	m	r	R	h	m	r	R
10	30.6	243.169	240.950	10	38.4	192.069	194.318
10	53.1	240.941	243.208	10	45.4	194.310	192.070
11	1.2	243.193	240.956	11	8.9	192.061	194.342
11	29.0	240.974	243.213	11	19.1	194.315	192.091
			484.261				386.508
			484.295				386.502
			484.297				386.530
			484.340				386.535

in  
Bar. 30.13. Ther. 54.9. Run + 2.6. Images 2. Steadiness 3. F.P. 9.74.

 $\epsilon$  Indi.

1881, April 12.

a				b			
h	m	r	R	h	m	r	R
16	46.6	228.502	230.780	17	1.1	201.864	204.125
16	53.2	230.748	228.525	17	6.7	204.107	201.885
17	32.3	228.561	230.810	17	17.8	201.887	204.137
17	38.4	230.786	228.618	17	24.4	204.091	201.900
			459.669				406.273
			459.640				406.265
			459.646				406.278
			459.667				406.233

in  
Bar. 30.13. Ther. 57.0. Run + 3.2. Images 2. Steadiness 3. F.P. 9.74.

 $\zeta$  Tucanae.

1881, April 12.

a				b			
h	m	r	R	h	m	r	R
18	1.8	197.774	195.517	18	18.9	202.916	200.675
18	8.2	195.536	197.796	18	27.6	200.674	202.944
18	54.4	197.775	195.598	18	38.8	202.920	200.710
19	0.3	195.574	197.789	18	45.5	200.693	202.907
			393.409				403.712
			393.447				403.736
			393.483				403.745
			393.474				403.715

in  
Bar. 30.14. Ther. 56.9. Run + 3.0. Images 2-3. Steadiness 3. F.P. 9.74.

## Sirius.

1881, April 14.

b				a			
h	m	r	R	h	m	r	R
8	51.3	193.634	191.488	9	9.1	196.882	194.743
9	1.1	191.490	193.661	9	15.3	194.744	196.938
9	42.5	193.649	191.469	9	25.0	196.885	194.723
9	48.3	191.465	193.629	9	32.7	194.743	196.897
			385.242				391.749
			385.272				391.809
			385.257				391.737
			385.235				391.772

in  
Bar. 30.09. Ther. 53.5. Run + 2.1. Images 2-3. Steadiness 3. F.P. 8.75.



## Sirius.

1881, April 20.

<i>a</i>				<i>b</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
8	50.8	196.918	194.718	391.756	9	5.5	193.672	191.504	385.301
8	58.2	194.685	196.887	391.693	9	11.4	191.470	193.653	385.249
9	35.4	196.878	194.755	391.767	9	20.3	193.648	191.450	385.227
9	42.3	194.750	196.895	391.783	9	27.1	191.483	193.638	385.253

in  
Bar. 30.36. Ther. 54.8. Run + 1.3. Images 2. Steadiness 2. F.P. 8.75.

 α<sub>2</sub> Centauri.

1881, April 20.

a					b				
h	m	r	r	R	h	m	r	R	
10	5.8	194.202	192.045	386.363	10	24.3	243.062	240.883	484.088
10	13.0	192.021	194.211	386.351	10	31.3	240.907	243.080	484.131
10	56.0	194.209	191.998	386.333	10	41.2	243.077	240.909	484.132
11	2.5	192.028	194.237	386.392	10	46.8	240.898	243.078	484.123

in  
Bar. 30.39. Ther. 54.0. Run + 2.3. Images 1. Steadiness 2. F.P. 8.75.

## ε Indi.

1881, April 20.

b					a				
h	m	r	r	R	h	m	r	r	R
17	3.3	203.981	201.827	406.093	17	19.3	230.649	228.505	459.461
17	9.6	201.839	204.020	406.131	17	25.6	228.501	230.680	459.474
17	49.2	204.058	201.856	406.123	17	35.4	230.685	228.504	459.464
17	56.2	201.870	204.053	406.126	17	41.4	228.545	230.670	459.478

in  
Bar. 30.42. Ther. 52.9. Run + 3.6. Images 2. Steadiness 3. F.P. 8.75.

## ζ Tucanae.

1881, April 20.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
18	17.9	200.650	202.803	403.577	18	35.6	195.501	197.677	393.291
18	25.5	202.802	200.655	403.577	18	42.1	197.667	195.521	393.300
19	11.4	200.652	202.819	403.587	18	54.8	195.548	197.708	393.369
19	18.5	202.798	200.612	403.526	19	1.4	197.655	195.501	393.269

in  
Bar. 30.44. Ther. 53.1. Run + 2.1. Images 3. Steadiness 3. F.P. 8.75.

## Sirius.

1881, April 21.

b					a				
h	m	r	r	R	h	m	r	r	R
9	25.1	191.477	193.636	385.242	9	38.8	194.792	196.914	391.841
9	31.6	193.672	191.466	385.272	9	44.5	196.871	194.724	391.733
10	9.5	191.478	193.635	385.257	9	54.1	194.760	196.902	391.804
10	16.1	193.632	191.494	385.286	10	0.5	196.855	194.702	391.793

in  
Bar. 30.49. Ther. 59.2. Run + 1.7. Images 2-3. Steadiness 2-3. F.P. 8.75.

## Canopus.

1881, April 22.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
9	47.7	45.286	47.450	92.781	10	1.1	52.711	54.868	107.635
9	53.3	47.456	45.259	92.760	10	7.0	54.873	52.712	107.643
10	26.9	45.290	47.451	92.795	10	15.0	52.721	54.861	107.642
10	32.8	47.461	45.293	92.810	10	21.0	54.892	52.730	107.684
in									
Bar. 30.41.				Ther. 60°7.		Run + 2.0.		F.P. 9.75.	

 $\alpha_2$  Centauri.

(1881, April 22.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
10	53.8	241.013	243.252	484.411	11	9.3	192.130	194.323	386.580
11	0.4	243.213	241.048	484.408	11	14.7	194.306	192.121	386.555
11	40.0	241.056	243.205	484.416	11	25.1	192.142	194.292	386.564
11	46.3	243.213	241.041	484.410	11	31.1	194.298	192.158	386.587
in									
Bar. 30.39. Ther. 59.0. Run + 3.3.					Images 2-3. Steadiness 2. F.P. 9.75.				

 $\epsilon$  Indi.

1881, April 22.

<i>a</i>				<i>b</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
17	17.3	228.654	230.806	459.768	17	34.0	201.969	204.171	406.369
17	23.3	230.784	228.639	459.718	17	41.8	204.192	201.966	406.375
18	5.0	228.663	230.839	459.724	17	52.4	201.997	204.158	406.358
18	10.9	230.828	228.678	459.720	17	58.1	204.134	201.966	406.296
in									
Bar. 30.35. Ther. 57.9. Run + 2.7.				Images 2-3. Steadiness 3. F.P. 9.75.					

 $\zeta$  Tucanae.

1881, April 22.

<i>a</i>				<i>b</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
18	32.9	195.635	197.802	393.550	18	48.2	200.760	202.944	403.820
18	40.7	197.836	195.616	393.564	18	57.0	202.929	200.738	403.783
19	23.3	195.639	197.792	393.547	19	7.2	200.766	202.917	403.799
19	31.8	197.779	195.612	393.509	19	14.1	202.928	200.768	403.812
in									
Bar. 30.33. Ther. 50.7. Run + 2.9.				Images 2-3. Steadiness 3. F.P. 9.75.					

 $\alpha_2$  Centauri.

1881, April 23.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
10	47.2	192.145	194.338	386.603	11	3.6	241.032	243.213	484.389
10	53.8	194.319	192.141	386.581	11	11.5	243.219	241.037	484.402
11	38.9	192.136	194.274	386.539	11	21.6	241.060	243.223	484.430
11	45.3	194.301	192.132	386.562	11	28.4	243.212	241.037	484.398
in									
Bar. 30.26. Ther. 68.5. Run + 3.3.					Images 2-3. Steadiness 2-3. F.P. 9.75.				

## Sirius.

1881, April 24.

a				b			
h	m	r	R	h	m	r	R
9	44.3	196.987	194.846	10	1.3	193.753	191.601
9	51.9	194.853	197.067	10	8.1	191.585	193.772
10	35.4	196.989	194.837	10	18.5	193.768	191.581
10	41.3	194.864	197.031	10	26.6	191.600	193.767
			391.968				385.500
			392.058				385.508
			391.994				385.508
			392.071				385.533

Bar. 30.16. Ther. 64.7. Run + 1.6. Images 2. Steadiness 2. F.P. 9.75.

## ε Indi.

1881, April 24.

b				a			
h	m	r	R	h	m	r	R
18	2.0	204.160	202.009	18	15.0	230.855	228.680
18	7.7	202.040	204.189	18	22.4	228.685	230.835
18	52.0	204.192	202.005	18	36.0	230.853	228.676
18	58.6	202.045	204.198	18	42.7	228.680	230.864
			406.360				459.742
			406.413				459.717
			406.344				459.713
			406.386				459.723

Bar. 30.09. Ther. 58.7. Run + 3.0. Images 2. Steadiness 2.

## ε Indi.

1881, April 28.

a				b			
h	m	r	R	h	m	r	R
19	7.5	230.851	228.672	19	26.4	204.191	202.037
19	15.6	228.683	230.819	19	36.4	202.003	204.222
20	6.6	230.849	228.702	19	48.9	204.165	202.032
20	11.9	228.684	230.872	19	57.4	202.025	204.208
			459.688				406.361
			459.663				406.354
			459.690				406.322
			459.694				406.355

Bar. 30.03. Ther. 44.8. Run + 3.1. Images 2. Steadiness 2-3. F.P. 9.75.

 α<sub>2</sub> Centauri.

1881, May 4.

b				a			
h	m	r	R	h	m	r	R
11	47.7	243.218	241.031	12	6.0	194.316	192.141
11	56.0	240.989	243.228	12	12.5	192.149	194.333
12	47.6	243.169	241.002	12	23.3	194.323	192.164
12	53.4	241.040	243.204	12	30.7	192.153	194.345
			484.404				386.591
			484.375				386.617
			484.333				386.623
			484.407				386.635

Bar. 30.07. Ther. 56.6. Run + 5.0. Images 3. Steadiness 3. F.P. 9.75.

## ε Indi.

1881, May 6.

b				a			
h	m	r	R	h	m	r	R
18	46.4	201.992	204.198	19	1.0	228.686	230.850
18	53.1	204.141	202.032	19	7.5	230.790	228.600
19	40.2	202.043	204.180	19	17.9	228.665	230.859
19	46.6	204.204	202.009	19	28.8	230.822	228.650
			406.343				459.703
			406.322				459.553
			406.349				459.682
			406.337				459.623

Bar. 30.09. Ther. 51.9. Run + 3.7. Images 2-3. Steadiness 3. F.P. 9.50.

$\zeta$  Tucanae.

1881, May 6.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
20	4.2	202.852	200.733	403.706	20	19.4	197.742	195.625	393.495
20	10.4	200.765	202.888	403.777	20	24.8	195.595	197.788	393.512
20	44.7	202.894	200.694	403.718	20	34.6	197.748	195.578	393.459
20	49.4	200.708	202.930	403.769	20	39.2	195.566	197.766	393.466

in  
Bar. 30.09. Ther. 50.2. Run + 3.4. Images 3. Steadiness 3. F.P. 9.50.

 $\epsilon$  Indi.

1881, May 9.

<i>a</i>				<i>b</i>					
h	m	r	R	h	m	r	R		
18	50.5	230.792	228.630	459.600	19	4.9	204.144	201.967	406.255
18	55.9	228.649	230.791	459.614	19	11.0	201.993	204.161	406.295
19	36.5	230.812	228.628	459.591	19	20.0	204.159	202.007	406.303
19	42.4	228.623	230.801	459.572	19	25.8	201.946	204.143	406.223

in  
Bar. 30.17. Ther. 44.6. Run + 2.9. Images 2. Steadiness 2. F.P. 9.50.

## Sirius.

1881, May 18.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
9	36.2	196.914	194.828	9	43.6	191.632	193.721
9	58.3	194.820	196.953	9	51.4	193.715	191.544
10	10.7	196.898	194.815	10	17.5	191.566	193.650
10	35.4	194.792	196.936	10	26.1	193.696	191.564
			391.877				385.492
			391.918				385.403
			391.865				385.377
			391.900				385.429

in  
Bar. 30.28. Ther. 54.9. Run + 2.8. Images 3. Steadiness 3. F.P. 9.50.

## Sirius.

1881, May 19.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
9	40.2	193.716	191.630	385.483	9	54.8	196.931	194.852	391.925
9	47.4	191.526	193.687	385.354	10	0.4	194.810	196.923	391.878
10	24.3	193.692	191.560	385.419	10	11.6	196.933	194.841	391.926
10	30.4	191.528	193.686	385.386	10	17.6	194.821	196.883	391.861

in  
Bar. 30.18. Ther. 55.2. Run + 1.7. Images 3. Steadiness 3. F.P. 9.50.

## Sirius.

1881, May 20.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
9	43.0	194.826	196.936	391.899	9	58.8	191.582	193.727	385.457
9	50.4	196.943	194.797	391.880	10	5.6	193.699	191.571	385.422
10	32.5	194.772	196.959	391.901	10	16.4	191.592	193.703	385.455
10	39.6	196.911	194.796	391.883	10	23.4	193.693	191.535	385.394

in  
Bar. 30.09. Ther. 53.9. Run + 1.5. Images 3. Steadiness 3. F.P. 9.50.

$\alpha_2$  Centauri.

1881, May 20.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
13	9.0	243.100	240.992	484.257	13	40.3	194.243	192.145	386.527
13	22.0	240.984	243.118	484.269	13	51.0	192.137	194.271	386.546
14	29.2	243.121	241.011	484.299	14	7.3	194.231	192.097	386.466
14	41.5	240.985	243.164	484.314	14	15.3	192.170	194.336	386.642

Bar. 30.08. Ther. 54.5. Run + 3.7. Images 3. Steadiness 3. F.P. 9.50.

## Sirius.

1881, May 21.

<i>a</i>					<i>b</i>				
h	m	r		R	h	m	r		R
9	49.0	196.904	194.793	391.836	10	0.1	191.592	193.699	385.439
10	19.0	194.840	196.932	391.929	10	8.8	193.682	191.553	385.388
10	31.4	196.911	194.778	391.857	10	43.6	191.565	193.675	385.427
12	2.7	194.786	196.894	391.885	10	54.6	193.695	191.553	385.449

Bar. 29.93. Ther. 53.3. Run + 1.5. Images 3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, May 23.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
10	5.6	192.152	194.307	386.575	10	25.6	241.009	243.138	484.289
10	15.6	194.273	192.192	386.583	10	32.0	243.146	241.005	484.294
11	1.1	192.123	194.281	386.531	10	43.8	240.994	243.133	484.272
11	11.2	194.261	192.164	386.554	10	50.4	243.137	240.978	484.261

Bar. 30.15. Ther. 51.8. Run + 3.3. Images 2-3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, June 13.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
11	39.4	240.827	243.307	484.288	11	59.6	192.002	194.495	386.631
11	46.2	243.283	240.823	484.261	12	8.4	194.481	191.976	386.591
12	35.4	240.801	243.295	484.258	12	19.5	192.006	194.490	386.632
12	42.3	243.312	240.819	484.294	12	26.1	194.454	192.002	386.592

Bar. 30.25. Ther. 58.5. Run + 3.8. Images 3. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, June 16.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
11	51.5	194.462	191.968	386.563	12	7.1	243.292	240.807	484.258
11	58.5	191.995	194.480	386.609	12	12.5	240.799	243.320	484.279
12	44.0	194.454	191.978	386.570	12	24.0	243.277	240.818	484.256
12	51.3	191.969	194.470	386.578	12	30.4	240.840	243.302	484.304

Bar. 30.15. Ther. 54.9. Run + 4.7. Images 3. Steadiness 3. F.P. 9.50.

$\alpha_2$  Centauri.

1881, June 17.

<i>b</i>				<i>a</i>			
h	m	r	R	h	m	r	R
13	44.2	240.824	243.310	14	0.5	191.988	194.476
13	51.0	243.311	240.778	14	8.5	194.467	191.955
14	36.5	240.844	243.362	14	17.3	191.965	194.482
14	45.9	243.318	240.824	14	24.6	194.468	191.975

in  
Bar. 30.11. Ther. 63.3. Run + 4.5. Images 3. Steadiness 3. F.P. 9.50.

 $\zeta$  Tucanae.

1881, June 20.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
21	23.2	197.886	195.427	21	40.1	202.990	200.509
21	30.9	195.385	197.877	21	47.4	200.501	203.005
22	14.8	197.857	195.412	21	57.8	203.007	200.537
22	23.1	195.409	197.891	22	5.8	200.560	203.015

in  
Bar. 30.48. Ther. 55.1. Run + 3.5. Images 2-3. Steadiness 3. F.P. 9.50.

 $\epsilon$  Eridani.

1881, June 20.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
22	48.0	254.275	256.773	23	2.7	267.830	270.269
22	54.8	256.747	254.252	23	10.0	270.292	267.792
23	41.7	254.293	256.820	23	23.7	267.801	270.333
23	49.3	256.799	254.314	23	33.2	270.369	267.832

in  
Bar. 30.46. Ther. 55.3. Run + 3.0. Images 2-3. Steadiness 3. F.P. 9.50.

## Canopus.

1881, June 21.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
12	9.0	54.946	52.436	12	22.9	47.628	45.112
12	15.8	52.441	54.951	12	29.0	45.127	47.575
12	51.8	54.950	52.400	12	37.4	47.603	45.083
12	59.5	52.441	54.966	12	45.1	45.084	47.588

in  
Bar. 30.36. Ther. 60.2. Run + 3.9. Images 3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, June 21.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
16	14.8	191.959	194.502	16	28.6	240.770	243.320
16	20.9	194.527	191.996	16	34.1	243.296	240.801
16	56.0	191.995	194.498	16	42.6	240.804	243.242
17	0.6	194.518	192.009	16	48.2	243.284	240.805

in  
Bar. 30.31. Ther. 57.5. Run + 4.3. F.P. 9.50.

Indi.

1881, June 21.

b				a					
h	m	r	R	h	m	r	R		
17	22.5	201.810	204.331	406.387	17	38.2	228.447	230.947	459.659
17	29.2	204.262	201.803	406.300	17	44.8	230.922	228.428	459.603
18	11.5	201.816	204.343	406.341	17	56.3	228.450	230.955	459.640
18	17.2	204.288	201.802	406.266	18	2.4	230.891	228.458	459.561

Bar. 30.30. Ther. 57.8. Run + 3.4. Images 2. Steadiness 2-3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, June 22.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
12	4.9	243.294	240.799	484.250	12	20.8	194.497	192.006	386.639
12	11.1	240.803	243.296	484.257	12	27.2	191.992	194.503	386.632
12	59.0	243.280	240.792	484.236	12	40.9	194.484	191.976	386.597
13	7.1	240.792	243.287	484.244	12	47.2	192.007	194.485	386.629

Bar. 29.96. Ther. 54.9. Run + 4.4. F.P. 9.50.

e Eridani.

1881, June 24.

$\alpha$				$\delta$					
h	m	r	R	h	m	r	R		
22	54.7	267.759	270.314	538.375	23	9.2	254.271	256.809	511.328
23	1.4	270.286	267.778	538.351	23	16.9	256.842	254.269	511.347
23	44.1	267.859	270.346	538.424	23	28.9	254.300	256.769	511.288
23	50.5	270.323	267.824	538.358	23	35.8	256.781	254.288	511.280

Bar. 30.21. Ther. 49.8. Run + 4.1. Images 2. Steadiness 2-3. F.P. 9.50.

e Eridani.

1881, June 28.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
22	29.8	254.252	256.782	511.373	22	43.7	267.806	270.324	538.463
22	37.1	256.745	254.278	511.341	22	58.0	270.326	267.852	538.473
23	30.8	254.320	256.805	511.342	23	14.7	267.843	270.361	538.466
23	36.7	256.845	254.343	511.398	23	21.2	270.357	267.821	538.429

Bar. 30.25. Ther. 50.3. Run + 3.8. Images 2-3. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, July 1.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
15	25.0	194.512	192.027	386.672	15	41.9	243.326	240.817	484.308
15	32.2	192.023	194.505	386.661	15	50.5	240.824	243.339	484.326
16	30.3	194.716	191.810	386.649	16	13.5	243.523	240.612	484.293
16	41.3	191.847	194.706	386.674	16	20.7	240.614	243.513	484.285

Bar. 30.53. Ther. 46.6. Run + 3.5. F.P. 9.50.

$\alpha_2$  Centauri.

1881, July 2.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
15	26.3	243.321	240.801	484.289	15	41.0	194.529	192.032	386.694
15	32.6	240.813	243.308	484.288	15	50.4	192.045	194.538	386.713
16	12.8	243.290	240.823	484.274	15	58.5	194.503	192.027	386.659
16	20.2	240.791	243.315	484.266	16	4.3	192.023	194.513	386.666

in  
Bar. 30.49. Ther. 42.9. Run + 4.1. Images 2. Steadiness 3. F.P. 9.50.

 $\epsilon$  Indi.

1881, July 2.

<i>a</i>				<i>b</i>					
h	m	r	R	h	m	r	R		
16	53.6	228.394	230.902	459.679	17	9.2	201.772	204.338	406.390
17	1.0	230.887	228.404	459.653	17	18.3	204.285	201.788	406.337
17	43.4	228.449	230.946	459.662	17	28.9	201.801	204.310	406.357
17	49.8	230.924	228.457	459.636	17	35.4	204.349	201.816	406.401

in  
Bar. 30.50. Ther. 40.9. Run + 3.3. Images 3. Steadiness 3. F.P. 9.50.

 $\epsilon$  Indi.

1881, July 3.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
15	31.5	204.042	201.628	406.273	15	52.9	230.741	228.326	459.693
15	36.7	201.633	204.117	406.325	15	58.0	228.232	230.794	459.624
16	24.8	204.224	201.755	406.365	16	10.7	230.809	228.315	459.660
16	32.0	201.756	204.298	406.418	16	17.6	228.332	230.831	459.667

in  
Bar. 30.58. Ther. 51.2. Run + 4.8. Images 2-3. Steadiness 3. F.P. 9.50.

 $e$  Eridani.

1881, July 3.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
22	19.9	270.252	267.755	538.433	22	34.4	256.760	254.273	511.365
22	26.0	267.793	270.285	538.479	22	42.0	254.302	256.791	511.404
23	8.6	270.347	267.833	538.458	22	53.1	256.787	254.292	511.364
23	14.3	267.822	270.354	538.443	23	1.4	254.316	256.828	511.411

in  
Bar. 30.56. Ther. 46.4. Run + 3.2. Images 2. Steadiness 3. F.P. 9.50.

 $\zeta$  Tucanae.

1881, July 4.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
17	42.7	200.546	203.022	403.722	17	50.3	197.899	393.493	
18	9.8	203.055	200.538	403.723	18	1.2	195.430	393.457	
18	18.8	200.566	203.044	403.734	18	24.6	197.931	393.512	
18	39.7	203.035	200.586	403.739	18	32.7	195.459	393.510	

in  
Bar. 30.56. Ther. 50.8. Run + 3.8. Images 2. Steadiness 2-3. F.P. 9.50.



ε Indi.

1881, July 5.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
17	50.3	204.274	201.822	406.307	17	58.1	228.465	230.933	459.637
18	15.1	201.844	204.305	406.332	18	7.6	230.945	228.476	459.645
18	23.3	204.311	201.864	406.351	18	32.0	228.496	230.970	459.662
18	53.3	201.887	204.339	406.377	18	43.5	231.006	228.515	459.704

in  
Bar. 30.49. Ther. 46.8. Run + 4.0. Images 2-3. Steadiness 3. F.P. 9.50.

ζ Tucanae.

1881, July 5.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
19	15.1	195.452	197.922	393.491	19	25.8	203.057	200.553	403.729
19	44.4	197.916	195.455	393.493	19	37.0	200.574	203.025	403.720
19	53.8	195.432	197.917	393.473	20	1.1	203.035	200.574	403.733
20	17.2	197.913	195.424	393.468	20	10.1	200.576	203.038	403.741

in  
Bar. 30.37. Ther. 43.2. Run + 4.7. Images 2. Steadiness 2-3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, July 6.

<i>a</i>				<i>b</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
17	9 <sup>1</sup>	192 <sup>0</sup> 43	194 <sup>5</sup> 04	386 <sup>6</sup> 61	17	19 <sup>5</sup>	243 <sup>2</sup> 85	240 <sup>8</sup> 38	484 <sup>2</sup> 67
17	37 <sup>2</sup>	194 <sup>4</sup> 95	192 <sup>0</sup> 23	386 <sup>6</sup> 29	17	28 <sup>9</sup>	240 <sup>8</sup> 15	243 <sup>3</sup> 07	484 <sup>2</sup> 64
17	46 <sup>4</sup>	192 <sup>0</sup> 33	194 <sup>5</sup> 20	386 <sup>6</sup> 63	17	56 <sup>5</sup>	243 <sup>3</sup> 23	240 <sup>8</sup> 22	484 <sup>2</sup> 83
18	30 <sup>3</sup>	194 <sup>5</sup> 07	192 <sup>0</sup> 58	386 <sup>6</sup> 74	18	20 <sup>7</sup>	240 <sup>8</sup> 52	243 <sup>3</sup> 10	484 <sup>2</sup> 99

in  
Bar. 30.24. Ther. 56.8. Run + 4.3. Images 3. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, July 8.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
15	31.1	240.830	243.292	484.286	15	40.1	194.510	192.041	386.681
15	58.4	243.272	240.840	484.272	15	49.5	192.051	194.511	386.690
16	9.2	240.831	243.269	484.258	16	17.3	194.490	192.041	386.656
16	37.0	243.316	240.828	484.298	16	26.4	192.038	194.499	386.660

in  
Bar. 30.38. Ther. 50.0. Run + 5.3. Images 2. Steadiness 2-3. F.P. 9.50.

e Eridani.

1881, July 8.

a					b				
h	m	r	r	R	h	m	r	r	R
22	27.3	256.743	254.259	511.353	22	38.9	267.799	270.274	538.425
22	58.0	254.307	256.766	511.347	22	48.5	270.275	267.851	538.449
23	6.2	256.830	254.321	511.408	23	17.7	267.824	270.367	538.450
23	39.3	254.336	256.797	511.343	23	29.2	270.346	267.861	538.449

in  
Bar. 30.35. Ther. 46.2. Run + 5.0. Images 3. Steadiness 3. F.P. 9.50.

## Canopus.

1881, July 8.

b				a					
h	m	r	R	h	m	r	R		
0	0.9	47.519	45.079	92.752	0	16.0	54.948	52.466	107.548
0	8.6	45.090	47.538	92.772	0	25.7	52.487	54.931	107.544
0	57.4	47.514	45.071	92.681	0	37.2	54.950	52.516	107.582
1	3.0	45.137	47.557	92.786	0	45.9	52.470	54.985	107.566

in  
Bar. 30.35. Ther. 43.8. Run + 4.2. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, July 10.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
16	8.3	194.474	192.015	386.616	16	15.7	240.791	243.293	484.242
16	31.1	192.018	194.501	386.641	16	23.6	243.000	240.798	484.255
16	38.9	194.513	192.030	385.663	16	46.8	240.804	243.295	484.250
17	4.2	192.029	194.483	386.628	16	55.2	243.301	240.806	484.257

in  
Bar. 30.30.      Ther. 49.2.      Run + 6.1.      F.P. 9.50.

 $\epsilon$  Indi.

1881, July 10.

<i>a</i>				<i>b</i>					
h	m	r	R	h	m	r	R		
17	23.2	228.428	230.938	459.667	17	33.0	204.274	201.801	406.310
17	49.7	230.905	228.465	459.620	17	41.6	201.795	204.289	406.306
17	59.6	228.472	230.923	459.630	18	10.0	204.280	201.832	406.299
18	31.3	230.940	228.459	459.593	18	21.2	201.867	204.306	406.349

in  
Bar. 30.32.    Ther. 47.9.    Run + 4.3.    Images 2.    Steadiness 2-3.

 $\epsilon$  Indi.

1881, July 11.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
17	52.6	204.273	201.821	406.303	18	0.6	228.486	230.943	459.664
18	16.6	201.833	204.299	406.314	18	8.5	230.949	228.470	459.641
18	26.6	204.321	201.825	406.318	18	35.1	228.464	230.950	459.606
18	52.5	201.856	204.304	406.312	18	43.3	230.937	228.489	459.610

in  
Bar. 30.57. Ther. 49.8. Run + 6.1. Images 2. Steadiness 2. F.P. 9.50.

 $\zeta$  Tucanae.

1881, July 11.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
19	8.6	203.009	200.547	403.673	19	15.9	195.415	197.905	393.436
19	33.4	200.548	203.032	403.699	19	24.9	197.922	195.429	393.469
19	44.2	203.039	200.566	403.725	19	51.2	195.420	197.896	393.440
20	8.6	200.577	203.038	403.740	20	1.6	197.905	195.427	393.458

in  
Bar. 30.57. Ther. 48.4. Run + 4.4. Images 2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.

1881, July 12.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
15	55.3	194.513	192.001	386.644	16	2.4	240.819	243.309	484.291
16	16.7	191.998	194.511	386.635	16	10.8	243.307	240.804	484.272
16	24.4	194.506	192.000	386.631	16	34.1	240.820	243.282	484.259
16	58.4	191.992	194.498	386.609	16	49.3	243.333	240.825	484.312

in  
Bar. 30.51. Ther. 43.6. Run + 5.9. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, July 13.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
15	49.9	240.804	243.325	484.291	15	59.1	194.518	192.007	386.653
16	18.0	243.297	240.796	484.251	16	9.1	192.005	194.520	386.652
16	53.0	240.781	243.324	484.258	17	0.7	194.539	192.010	386.666
17	21.6	243.321	240.836	484.303	17	9.5	192.004	194.549	386.669

in  
Bar. 30.43. Ther. 47.6. Run + 4.7. Images 2-3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, July 16.

$a^1$					$b^1$				
h	m	r	r	R	h	m	r	R	
17	55.3	110.023	107.417	217.546	18	4.7	112.905	115.507	228.526
18	22.6	107.444	110.030	217.591	18	14.5	115.494	112.881	228.496
18	32.6	110.029	107.402	217.555	18	41.3	112.889	115.475	228.503
19	5.2	107.338	110.091	217.575	18	52.0	115.521	112.806	228.474

in  
Bar. 29.98. Ther. 56.3. Run + 2.4. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, July 18.

$b^1$					$a^1$				
h	m	r	r	R	h	m	r	r	R
15	40.7	112.836	115.594	228.500	15	49.0	110.142	107.355	217.566
16	4.2	115.572	112.840	228.487	15	57.4	107.351	110.138	217.559
16	11.7	112.845	115.579	228.500	16	18.7	110.118	107.369	217.562
16	31.0	115.575	112.877	228.532	16	25.2	107.365	110.099	217.540

in  
Bar. 30.40. Ther. 42.4. Run + 2.1. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, July 18.

a					b				
h	m	r	r	R	h	m	r	r	R
17	17.9	191.884	194.616	386.616	17	26.4	243.400	240.705	484.253
17	42.3	194.628	191.910	386.652	17	34.8	240.714	243.438	484.299
18	59.2	191.895	194.609	386.623	19	5.3	243.418	240.670	484.232
19	24.3	194.638	191.888	386.654	19	15.2	240.716	243.440	484.303

in  
Bar. 30.40. Ther. 39.8. Run + 4.7. Images 2-3. Steadiness 2-3. F.P. 9.50.

$\alpha_2$  Centauri.

1881, August 8.

$b^1$				$a^1$					
h	m	r	R	h	m	r	R		
16	47.1	112.878	115.520	228.480	16	53.3	110.037	107.377	217.494
17	7.6	115.480	112.854	228.423	17	0.6	107.408	110.067	217.557
17	15.6	112.857	115.499	228.449	17	24.5	110.046	107.425	217.562
17	42.4	115.507	112.830	228.441	17	34.2	107.420	110.057	217.572
in									
Bar. 30.04.				Ther. 51.5.	Run + 2.5.		F.P. 9.50.		

 $\alpha_2$  Centauri.

1881, August 8.

<i>b</i>					<i>a</i>				
<sup>h</sup>	<sup>m</sup>	<sup>r</sup>	<sup>r</sup>	<sup>R</sup>	<sup>h</sup>	<sup>m</sup>	<sup>r</sup>	<sup>r</sup>	<sup>R</sup>
18	18.9	243.338	240.716	484.190	18	26.9	191.953	194.558	386.619
18	45.6	240.702	243.369	484.207	18	36.8	194.581	191.928	386.617
19	18.4	243.362	240.702	484.207	19	26.8	191.922	194.600	386.646
in									
Bar. 30.05.					Ther. 53.5.				
					Run + 3.8.				
					F.P. 9.50.				

 $\alpha_2$  Centauri.

1881, August 10.

$a^1$				$b^1$			
h	m	r	R	h	m	r	R
20	24.0	109.957	107.330	20	33.2	112.770	115.395
20	52.4	107.343	109.930	20	43.0	115.372	112.775
21	3.3	109.973	107.315	21	11.1	112.770	115.323
			217.517				228.435
			217.541				228.434
			217.574	21	21.4	115.365	112.767
							228.491

$\overset{\text{in}}{\text{Bar. 30.20. Ther. 47.4. Run + 2.6. Images 2-3. Steadiness 3. F.P. 9.50.}}$

 $\alpha_2$  Centauri.

1881, August 11.

$a^1$				$b^1$					
h	m	r	R	h	m	r	R		
17	39.5	107.458	110.014	217.572	17	46.6	115.468	112.894	228.471
18	6.4	110.008	107.444	217.565	17	57.4	112.888	115.464	228.468
18	17.4	107.431	109.996	217.546	18	25.9	115.442	112.854	228.429
18	51.9	110.023	107.423	217.587	18	40.6	112.875	115.435	228.453
in									
Bar. 30.57.				Ther. 45.8.					
				Run + 2.4.					
				Images 1-2. Steadiness 2.					
				F.P. 9.50.					

 $\alpha_2$  Centauri.

1881, August 12.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
16	40.3	191.964	194.546	16	49.0	243.327	240.717
17	7.0	194.540	191.982	16	58.7	240.747	243.315
17	44.8	191.979	194.556	17	52.5	243.290	240.755
18	9.1	194.563	191.974	18	1.7	240.740	243.353
in							
Bar. 30.57. Ther. 47.9. Run + 4.5. Images 2. Steadiness 2. F.P. 9.50.							

ε Indi.

1881, August 12.

<i>a</i>				<i>b</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
19	38.3	231.016	228.396	459.563	19	45.4	201.797	204.402	406.326
20	1.9	228.433	230.989	459.564	19	54.2	204.356	201.812	406.293
20	9.8	230.989	228.433	459.562	20	19.6	201.800	204.370	406.289
20	36.3	228.433	230.990	459.557	20	27.0	204.385	201.804	406.307

in  
Bar. 30.55. Ther. 49.8. Run + 4.1. Images 1-2. Steadiness 2. F.P. 9.50.

Sirius.

1881, August 12.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>		<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>		<i>R</i>
2	8.0	196.865	194.323	391.745	2	17.4	191.140	193.758	385.342
2	33.3	194.413	197.019	391.837	2	25.7	193.750	191.194	385.345
2	41.0	197.027	194.410	391.808	2	49.3	191.233	193.820	385.366
3	8.6	194.491	197.032	391.808	3	1.1	193.796	191.248	385.327

in  
Bar. 30.49. Ther. 49.9. Run + 3.1. Images 2. Steadiness 2. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, August 13.

$b^1$				$a^1$					
h	m	r	R	h	m	r	R		
17	11.7	115.470	112.863	228.425	17	19.8	107.438	110.036	217.563
17	35.8	112.890	115.477	228.468	17	28.3	110.021	107.404	217.518
17	43.8	115.466	112.875	228.447	17	51.5	107.426	110.029	217.559
18	9.2	112.892	115.439	228.451	18	0.8	109.987	107.415	217.510

in  
Bar. 30.39. Ther. 52.2. Run + 3.2. Images 1-2. Steadiness 2. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, August 13.

<i>b</i>					<i>α</i>				
h	m	r	r	R	h	m	r	r	R
18	27.7	243.335	240.734	484.207	18	36.7	191.985	194.544	386.639
18	53.5	240.757	243.316	484.212	18	46.4	194.552	191.993	386.658
19	22.3	243.296	240.742	484.184	19	34.3	191.976	194.535	386.640
19	53.1	240.732	243.348	484.245	19	43.3	194.561	191.952	386.647

in  
Bar. 30.39. Ther. 51.5. Run + 4.5. Images 1-2. Steadiness 2. F.P. 9.50.

Sirius.

1881, August 13.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
2	7.0	191.137	193.747	385.390	2	14.1	196.876	194.321	391.707
2	31.2	193.734	191.202	385.310	2	22.4	194.398	196.939	391.797
2	39.3	191.207	193.784	385.337	2	49.6	196.976	194.437	391.750
3	8.4	193.839	191.254	385.357	3	0.2	194.444	197.023	391.772

in  
Bar. 30.33. Ther. 49.5. Run + 1.9. Images 1-2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.

1881, August 14.

 $a^1$  $b^1$ 

h	m	r	r	R	h	m	r	r	R
19	2.5	107.410	110.014	217.570	19	9.7	115.429	112.834	228.427
19	28.5	109.997	107.439	217.604	19	19.6	112.862	115.428	228.464
19	36.8	107.424	110.011	217.610	19	44.3	115.434	112.802	228.436
20	4.0	109.987	107.349	217.539	19	55.3	112.831	115.405	228.449

in  
Bar. 29.24. Ther. 54.3. Run + 2.9. Images 3. Steadiness 3. F.P. 9.50.

 $\epsilon$  Indi.

1881, August 14.

 $b$  $a$ 

h	m	r	r	R	h	m	r	r	R
20	25.4	201.820	204.393	406.329	20	33.9	230.982	228.425	459.539
20	56.2	204.405	201.780	406.300	20	46.7	228.421	231.026	459.577
21	5.2	201.796	204.396	406.307	21	13.7	231.010	228.418	459.558
21	31.1	204.370	201.801	406.287	21	22.1	228.436	230.993	459.560

in  
Bar. 30.24. Ther. 54.1. Run + 5.0. Images 2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, August 16.

 $a$  $b$ 

h	m	r	r	R	h	m	r	r	R
17	46.0	194.524	191.976	386.611	17	52.9	240.754	243.325	484.219
18	6.3	191.968	194.549	386.626	17	59.0	243.328	240.725	484.192
18	33.8	194.566	191.962	386.637	18	40.3	240.733	243.339	484.210
18	56.0	191.989	194.530	386.633	18	48.0	243.300	240.747	484.185

in  
Bar. 30.42. Ther. 55.8. Run + 4.9. Images 1-2. Steadiness 1-2. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, August 16.

 $b^1$  $a^1$ 

h	m	r	r	R	h	m	r	r	R
19	33.8	115.412	112.826	228.427	19	41.6	107.422	110.000	217.603
19	59.4	112.817	115.419	228.454	19	51.4	109.973	107.392	217.555
20	7.6	115.396	112.898	228.523	20	14.4	107.372	109.936	217.524
20	29.5	112.785	115.358	228.404	20	22.7	109.910	107.383	217.518

in  
Bar. 30.42. Ther. 55.8. Run + 3.4. Images 2. Steadiness 2. F.P. 9.50.

 $\epsilon$  Eridani.

1881, August 16.

 $a$  $b$ 

h	m	r	r	R	h	m	r	r	R
22	8.8	256.693	254.163	511.270	22	17.3	267.702	270.254	538.384
22	35.5	254.184	256.769	511.275	22	28.2	270.262	267.688	538.334
22	42.9	256.767	254.185	511.254	22	50.4	267.718	270.303	538.334

in  
Bar. 30.41. Ther. 54.4. Run + 4.6. Images 2. Steadiness 2-3. F.P. 9.50.

ε Indi.

1881, August 18.

<i>a</i>					<i>b</i>				
h	m	r	R		h	m	r	R	
17	12.9	230.949	228.265	459.528	17	23.2	201.703	204.404	406.352
17	38.6	228.307	231.059	459.630	17	31.4	204.396	201.687	406.315
17	45.6	231.030	228.327	459.609	17	54.2	201.734	204.458	406.392
18	12.8	228.331	231.063	459.605	18	4.7	204.406	201.711	406.306

in  
Bar. 30.21. Ther. 56.3. Run + 3.3. Images 3. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, August 18.

$a^1$					$b^1$				
h	m	r	r	R	h	m	r	r	R
18	35.5	110.108	107.325	217.559	18	44.7	112.795	115.550	228.487
19	1.7	107.332	110.082	217.558	18	52.3	115.536	112.778	228.463
19	10.8	110.085	107.322	217.559	19	19.5	112.747	115.484	228.405
19	38.0	107.305	110.050	217.531	19	29.9	115.503	112.758	228.444

in  
Bar. 30.21. Ther. 55.0. Run + 3.1. Images 3. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, August 19.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
18	6.7	240.659	243.396	484.188	18	16.0	194.649	191.895	386.652
18	33.9	243.371	240.659	484.165	18	25.7	191.918	194.585	386.611
19	10.6	240.682	243.395	484.216	19	21.3	194.616	191.912	386.648
19	41.0	243.375	240.648	484.175	19	35.0	191.919	194.623	386.669

in  
Bar. 30.11. Ther. 56.3. Run + 4.6. Images 2-3. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, August 25.

<i>a</i>				<i>b</i>					
h	m	r	R	h	m	r	R		
18	11.7	194.542	191.998	386.653	18	20.8	240.756	243.318	484.215
18	39.8	192.001	194.555	386.669	18	30.8	243.281	240.749	484.171
19	12.0	194.543	191.977	386.642	19	21.5	240.761	243.305	484.215
19	43.4	191.965	194.535	386.637	19	31.3	243.306	240.742	484.201

in  
Bar. 30.67. Ther. 45.0. Run + 4.9. Images 2. Steadiness 2. F.P. 9.50.

Sirius.

1881, August 25.

a				b					
h	m	r	R	h	m	r	R		
2	46 <sup>9</sup>	196 <sup>9</sup> 996	194 <sup>9</sup> 430	391 <sup>9</sup> 782	2	54 <sup>0</sup>	191 <sup>9</sup> 227	193 <sup>9</sup> 785	385 <sup>9</sup> 318
3	11 <sup>9</sup>	194 <sup>9</sup> 486	197 <sup>9</sup> 014	391 <sup>9</sup> 780	3	4 <sup>7</sup>	193 <sup>9</sup> 774	191 <sup>9</sup> 245	385 <sup>9</sup> 296
3	18 <sup>7</sup>	197 <sup>9</sup> 016	194 <sup>9</sup> 514	391 <sup>9</sup> 795	3	28 <sup>6</sup>	191 <sup>9</sup> 287	193 <sup>9</sup> 798	385 <sup>9</sup> 314
3	45 <sup>4</sup>	194 <sup>9</sup> 542	197 <sup>9</sup> 051	391 <sup>9</sup> 812	3	37 <sup>3</sup>	193 <sup>9</sup> 811	191 <sup>9</sup> 264	385 <sup>9</sup> 291

in  
Bar. 30.69. Ther. 44.8. Run + 3.7. Images 1-2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.

1881, August 27.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
18	23.6	240.736	243.276	484.149	18	31.2	194.521	191.977	386.608
18	45.5	243.283	240.741	484.161	18	58.6	192.000	194.545	386.656
18	52.3	240.753	243.304	484.195	18	59.4	194.548	191.969	386.631
19	16.6	243.302	240.773	484.218	19	8.8	191.999	194.524	386.640

in  
Bar. 30.40. Ther. 54.0. Run + 5.1. Images 2-3. Steadiness 2-3. F.P. 9.50.

 $\epsilon$  Indi.

1881, August 27.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
19	34.7	201.827	204.373	406.326	19	43.9	230.986	228.424	459.556
20	2.4	204.381	201.829	406.331	19	52.9	228.426	230.979	459.548
20	9.3	201.860	204.386	406.366	20	17.2	230.968	228.444	459.548
20	36.3	204.380	201.822	406.318	20	26.7	228.428	231.005	459.566

in  
Bar. 30.39. Ther. 53.5. Run + 4.5. Images 2. Steadiness 2. F.P. 9.50.

 $\zeta$  Tucanae.

1881, August 28.

<i>a</i>					<i>b</i>				
h	m	r	R		h	m	r	R	
19	54.6	197.929	195.381	393.433	20	3.2	200.522	203.068	403.713
20	20.5	195.409	197.904	393.443	20	11.5	203.039	200.527	403.691
20	29.7	197.911	195.422	393.466	20	37.2	200.541	203.047	403.718
20	54.1	195.392	197.922	393.453	20	47.0	203.075	200.514	403.722

in  
Bar. 30.34. Ther. 49.0. Run + 4.2. Images 3. Steadiness 3. F.P. 9.50.

## Sirius.

1881, August 28.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
2	44.4	191.276	193.775	385.383	2	51.5	196.991	194.427	391.753
3	8.1	193.810	191.317	385.394	3	0.0	194.456	196.989	391.753
3	16.7	191.273	193.835	385.356	3	25.3	197.033	194.514	391.795
3	45.0	193.824	191.324	385.351	3	35.7	194.532	197.006	391.768

in  
Bar. 30.35. Ther. 45.0. Run + 1.9. Images 1-2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, August 29.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
19	11.0	192.004	194.538	386.659	19	18.8	243.275	240.753	484.171
19	36.0	194.500	192.007	386.636	19	27.8	240.760	243.261	484.169
19	44.1	192.003	194.494	386.632	19	52.4	243.244	240.765	484.172
20	10.4	194.496	191.985	386.642	20	2.1	240.747	243.255	484.175

in  
Bar. 30.52. Ther. 56.0. Run + 4.0. Images 2. Steadiness 2. F.P. 9.50.



ε Indi.

1881, August 29.

a				b					
h	m	r	R	h	m	r	R		
20	35.6	228.467	230.969	459.568	20	45.1	204.362	201.844	406.319
21	8.0	230.989	228.505	459.524	20	57.1	201.835	204.305	406.315
21	17.9	228.468	230.956	459.555	21	26.5	204.365	201.825	406.306
21	46.6	230.958	228.493	459.584	21	37.3	201.869	204.349	406.333

Bar. 30.32. Ther. 55.5. Run + 3.8. Images 2. Steadiness 2. F.P. 9.50.

Canopus.

1881, August 30.

a				b					
h	m	r	R	h	m	r	R		
1	58.8	54.981	52.480	107.530	2	4.4	45.113	47.598	92.770
2	21.5	52.506	55.002	107.571	2	13.6	47.608	45.101	92.765
2	30.0	55.008	52.509	107.578	2	36.5	45.098	47.611	92.759
2	51.9	52.509	55.010	107.573	2	45.4	47.594	45.121	92.761

Bar. 30.35. Ther. 56.0. Run + 4.6. Images 1-2. Steadiness 1-2. F.P. 9.50.

Sirius.

1881, August 30.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
3	9.6	194.507	197.011	391.796	3	19.1	193.774	191.275	385.287
3	37.2	197.000	194.526	391.749	3	28.9	191.291	193.792	385.305
3	44.6	194.545	197.042	391.801	3	52.8	193.815	191.329	385.335
4	7.8	197.037	194.554	391.776	4	0.7	191.323	193.825	385.330

Bar. 30.33. Ther. 54.5. Run + 2.4. Images 1-2. Steadiness 2. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, September 3.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
19	41.1	243.264	240.772	484.193	19	48.6	192.015	194.520	386.676
20	3.7	240.745	243.263	484.186	19	56.6	194.521	192.008	386.678
20	11.4	243.249	240.724	484.159	20	18.4	192.006	194.501	386.680
20	37.1	240.711	243.227	484.168	20	28.5	194.476	192.003	386.668

Bar. 30.24. Ther. 44.5. Run + 5.6. Images 2. Steadiness 2. F.P. 9.50.

Sirius.

1881, September 3.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
4	8.7	193.806	191.314	385.297	4	14.6	194.594	197.055	391.829
4	27.2	191.355	193.841	385.356	4	21.6	197.093	194.569	391.837
4	31.5	193.843	191.315	385.315	4	36.4	194.580	197.055	391.797

Bar. 30.16. Ther. 45.0. Run + 3.4. Images 1-2. Steadiness 2. F.P. 9.50.

$\zeta$  Tucanae.

1881, September 5.

<i>b</i>				<i>a</i>			
h	m	r	R	h	m	r	R
22	43' 1	200' 538	203' 011	22	52' 2	197' 889	195' 414
23	9' 1	203' 025	200' 538	23	1' 0	195' 419	197' 901
23	16' 0	200' 502	203' 040	23	25' 1	197' 902	195' 408
23	46' 2	203' 015	200' 499	23	34' 8	195' 411	197' 883

Bar. 30'14. Ther. 47'3. Run + 5'0. Images 2. Steadiness 2. F.P. 9'50.

 $\epsilon$  Indi.

1881, September 5.

$b$					$a$				
h	m	r	r	R	h	m	r	R	
0	6'0	204'330	201'852	406'346	0	13'4	228'437	230'942	459'562
0	31'7	201'836	204'328	406'340	0	23'4	230'939	228'443	459'571
0	38'0	204'338	201'843	406'361	0	45'9	228'444	230'916	459'561
1	3'1	201'785	204'342	406'322	0	55'1	230'889	228'461	459'556

Bar. 30'16. Ther. 45'5. Run + 3'2. Images 2. Steadiness 2. F.P. 9'50.

 $\alpha_2$  Centauri.

1881, September 6.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
18	44' 3	192° 038	194° 533	386° 682	18	50' 4	243° 278	240° 765	484° 182
19	3' 5	194° 535	191° 981	386° 632	18	56' 9	240° 751	243° 295	484° 186
19	12' 0	192° 033	194° 563	386° 716	19	19' 4	243° 278	240° 752	484° 176
19	40' 4	194° 515	192° 015	386° 665	19	29' 9	240° 765	243° 273	484° 189

Bar. 30'40. Ther. 48'8. Run + 4'9. Images 1-2. Steadiness 2. F.P. 9'50.

 $\zeta$  Tucanae.

1881, September 6.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
21	26'4	195'387	197'911	393'446	21	33'4	203'018	200'503	403'667
21	50'1	197'928	195'368	393'449	21	41'6	200'513	203'007	403'668
22	0'9	195'414	197'919	393'487	22	9'1	203'000	200'531	403'683
22	26'1	197'924	195'379	393'461	22	18'9	200'531	203'054	403'737

Bar. 30'39. Ther. 43'3. Run + 4'4. Images 1-2. Steadiness 1-2. F.P. 9'50.

## Sirius.

1881, September 7.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
3	43'4	194'597	197'031	391'842	3	49'5	193'877	191'326	385'397
4	3'5	197'015	194'534	391'739	3	56'7	191'333	193'848	385'368
4	9'4	194'573	197'046	391'803	4	15'5	193'859	191'328	385'357
4	29'5	197'047	194'564	391'776	4	22'6	191'363	193'863	385'389

Bar. 30'38. Ther. 53'0. Run + 2'6. Images 2-3. Steadiness 2-3. F.P. 9'50.

ε Indi.

1881, September 8.

<i>a</i>				<i>b</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
19	39.1	228.434	231.007	459.584	19	48.0	204.357	201.838	406.315
20	5.8	230.968	228.475	459.578	19	58.1	201.867	204.342	406.327
20	12.0	228.463	230.956	459.552	20	21.0	204.360	201.885	406.359
20	41.8	230.978	228.431	459.537	20	32.3	201.848	204.364	406.325

in  
Bar. 30.25. Ther. 66.7. Run + 5.0. Images 3. Steadiness 3. F.P. 9.50.

ζ Tucanae.

1881, September 8.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
21	19.6	203.016	200.493	403.644	21	27.8	195.440	197.868	393.449
21	50.2	200.516	203.030	403.687	21	43.1	197.899	195.389	393.433
21	56.7	203.032	200.474	403.648	22	4.1	195.402	197.900	393.450
22	23.3	200.516	203.010	403.672	22	14.5	197.913	195.406	393.468

in  
Bar. 30.24. Ther. 66.5. Run + 4.6. Images 3. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, September 9.

<i>b</i>					<i>a</i>				
h	m	r	R		h	m	r	R	
19	17.7	243.261	240.743	484.140	19	26.4	192.012	194.506	386.636
19	44.0	240.760	243.254	484.164	19	37.0	194.527	192.000	386.651
19	52.8	243.236	240.779	484.172	20	3.7	192.030	194.488	386.665
20	25.8	240.766	243.229	484.193	20	15.4	194.489	191.997	386.646

in;  
Bar. 30.13. Ther. 72.2. Run + 4.1. Images 3. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, September 10.

a					b				
h	m	r	r	R	h	m	r	r	R
19	44.3	194.506	192.003	386.642	19	54.2	240.784	243.252	484.199
20	12.9	191.998	194.481	386.640	20	4.0	243.270	240.723	484.166
20	24.2	194.446	191.985	386.609	20	32.1	240.754	243.224	484.193
20	55.3	191.956	194.430	386.626	20	46.6	243.210	240.727	484.184

in  
Bar. 30.16. Ther. 55.3. Run + 4.3. Images 3. Steadiness 2-3. F.P. 9.50.

Canopus.

1881, September 13.

b				a					
h	m	r	R	h	m	r	R		
2	28.6	45.146	47.609	92.808	2	34.1	54.970	52.517	107.547
2	46.7	47.594	45.124	92.766	2	41.3	52.540	55.011	107.609
2	53.2	45.135	47.594	92.775	2	59.3	55.011	52.506	107.570
3	15.3	47.594	45.126	92.761	3	7.9	52.531	54.977	107.559

in  
Bar. 30.40. Ther. 43.8. Run + 3.6. Images 1-2. Steadiness 2. F.P. 9.50.

## Sirius.

1881, September 13.

<i>b</i>				<i>a</i>			
h	m	r	R	h	m	r	R
3	29.9	193.828	191.317	3	37.8	194.553	197.000
3	54.7	191.369	193.810	3	47.9	196.970	194.536
4	2.2	193.813	191.326	4	9.4	194.584	197.018
4	26.0	191.332	193.811	4	18.1	197.039	194.566

in  
Bar. 30.41. Ther. 43.0. Run + 2.6. Images 2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, September 14.

<i>b</i>				<i>a</i>			
h	m	r	R	h	m	r	R
19	4.5	240.757	243.284	19	11.8	194.522	192.028
19	29.7	243.238	240.764	19	21.8	192.042	194.523
19	41.7	240.775	243.230	19	51.2	194.494	192.007
20	9.6	243.241	240.740	20	0.2	192.003	194.510

in  
Bar. 30.43. Ther. 53.2. Run + 4.0. Images 2. Steadiness 2. F.P. 9.50.

 $\zeta$  Tucanae.

1881, September 14.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
21	41.6	197.915	195.377	21	49.5	200.531	203.023
22	7.8	195.419	197.905	21	58.6	203.008	200.511
22	17.0	197.907	195.412	22	25.7	200.516	202.994
22	47.2	195.407	197.913	22	37.2	203.001	200.532

in  
Bar. 30.43. Ther. 52.8. Run + 4.2. Images 2. Steadiness 2. F.P. 9.50.

 $\epsilon$  Indi.

1881, September 19.

<i>b</i>				<i>a</i>			
h	m	r	R	h	m	r	R
19	46.2	204.314	201.885	19	53.7	228.504	230.950
20	16.3	201.873	204.340	20	6.1	230.980	228.493
20	26.9	204.345	201.886	20	40.8	228.500	230.931
21	5.5	201.887	204.333	20	56.5	230.946	228.509

in  
Bar. 30.33. Ther. 56.8. Run + 6.8. Images 3. Steadiness 3. F.P. 9.50.

## Sirius.

1881, September 19.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
4	10.6	197.015	194.580	4	20.4	191.369	193.781
4	39.7	194.534	197.027	4	31.3	193.807	191.334
4	47.9	197.059	194.597	4	54.9	191.357	193.796
5	11.0	194.599	197.028	5	4.7	193.825	191.368

in  
Bar. 30.32. Ther. 55.7. Run + 3.6. Images 2. Steadiness 2. F.P. 9.50.

## ζ Tucanae.

1881, September 20.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
22	10.1	202.996	200.523	403.667	22	17.6	195.456	197.926	393.534
22	31.2	200.542	203.010	403.702	22	24.9	197.893	195.402	393.448
22	37.2	203.013	200.541	403.705	22	46.4	195.434	197.911	393.501

in  
Bar. 30.32. Ther. 56.0. Run + 4.4. Images 1-2. Steadiness 2. F.P. 9.50.

## Canopus.

1881, September 21.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
2	47.8	52.512	55.044	107.610	2	53.4	47.580	45.060	92.684
3	8.1	55.025	52.506	107.582	3	1.3	45.095	47.600	92.738
3	15.7	52.480	55.006	107.535	3	21.9	47.633	45.071	92.743
3	35.6	55.034	52.512	107.590	3	28.6	45.082	47.608	92.728

in  
Bar. 30.27. Ther. 53.2. Run + 4.6. Images 3. Steadiness 2-3. F.P. 9.50.

## Sirius.

1881, September 21.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
3	52.5	193.815	191.319	385.326	3	59.3	194.532	197.079	391.807
4	16.6	191.325	193.833	385.328	4	8.7	197.067	194.536	391.789
4	25.0	193.851	191.333	385.346	4	32.9	194.543	197.069	391.776
4	53.7	191.354	193.880	385.378	4	42.9	197.088	194.589	391.835

in  
Bar. 30.26. Ther. 48.8. Run + 2.7. Images 2-3. Steadiness 2-3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, September 22.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
19	18.2	194.560	191.982	386.661	19	26.2	240.760	243.283	484.188
19	42.4	192.014	194.534	386.680	19	33.9	243.285	240.776	484.210
19	51.6	194.563	191.995	386.697	20	2.2	240.751	243.282	484.203
20	20.8	191.962	194.517	386.650	20	11.6	243.293	240.717	484.191

in  
Bar. 30.22. Ther. 58.5. Run + 4.5. Images 2-3. Steadiness 2.

## e Eridani.

1881, September 22.

b					a				
h	m	r	r	R	h	m	r	r	R
22	23.3	267.655	270.225	538.275	22	32.9	256.793	254.273	511.389
22	52.3	270.295	267.760	538.358	22	42.5	254.258	256.768	511.324
22	58.6	267.757	270.232	538.277	23	6.5	256.806	254.270	511.324
23	24.1	270.333	267.775	538.350	23	14.4	254.250	256.817	511.302

in  
Bar. 30.23. Ther. 60.3. Run + 4.3. Images 2-3. Steadiness 2-3. F.P. 9.50.

ε Indi.

1881, September 23.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
20	47.5	230.994	228.479	459.602	20	56.0	201.875	204.354	406.343
21	17.5	228.450	230.956	459.536	21	9.5	204.390	201.845	406.349
21	24.5	230.982	228.452	459.564	21	33.0	201.846	204.376	406.337
21	51.7	228.451	230.999	459.582	21	44.0	204.408	201.854	406.379

in  
Bar. 30.29. Ther. 59.0. Run + 3.7. Images 2-3. Steadiness 2-3. F.P. 9.50.

Sirius.

1881, September 24.

<i>a</i>				<i>b</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
4	22.3	197.068	194.546	391.784	4	28.9	191.394	193.865	385.416
4	46.3	194.615	197.076	391.843	4	39.1	193.846	191.378	385.374
4	53.1	197.048	194.585	391.781	5	2.3	191.419	193.871	385.428
5	20.1	194.661	197.107	391.802	5	11.3	193.786	191.433	385.352

in  
Bar. 30.10. Ther. 52.5. Run + 2.4. Images 1-2. Steadiness 2. F.P. 9.50.

ζ Tucanae.

1881, September 25.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
21	8.5	195.475	197.939	393.553	21	15.4	203.021	200.544	403.700
21	34.6	197.913	195.458	393.515	21	26.0	200.571	203.059	403.767
21	41.7	195.458	197.951	393.555	21	48.1	203.053	200.540	403.735
22	4.7	197.905	195.443	393.497	21	56.5	200.561	203.008	403.713

in  
Bar. 29.90. Ther. 55.8. Run + 4.1. Images 1-2. Steadiness 2. F.P. 9.50.

e Eridani.

1881, September 25.

a					b				
h	m	r	r	R	h	m	r	r	R
22	47.8	254.293	256.815	511.394	22	56.5	270.282	267.831	538.406
23	14.7	256.800	254.296	511.330	23	6.4	267.816	270.304	538.393
23	22.1	254.303	256.827	511.355	23	30.9	270.334	267.814	538.380
23	50.3	256.821	254.335	511.347	23	40.0	267.821	270.328	538.368

in  
Bar. 29.91. Ther. 54.5. Run + 4.1. Images 1-2. Steadiness 2-3. F.P. 9.52.

α<sub>2</sub> Centauri.

1881, September 26.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
20	20.1	240.724	243.247	484.166	20	27.2	194.455	192.098	386.736
20	43.4	243.212	240.714	484.167	20	35.4	191.997	194.481	386.676
20	50.1	240.724	243.226	484.208	20	58.1	194.492	191.970	386.712
21	17.1	243.176	240.633	484.164	21	7.5	191.970	194.428	386.677

in  
Bar. 30.16. Ther. 51.3. Run + 5.2. Images 1-2. Steadiness 2-3. F.P. 9.52.

## ζ Tucanae.

1881, September 26.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
22	38.8	200.565	203.019	403.736	22	46.8	197.906	195.417	393.480
23	4.2	202.995	200.511	403.659	22	55.2	195.415	197.901	393.473
23	12.0	200.539	203.016	403.709	23	21.2	197.881	195.407	393.446

Bar. 30.17. Ther. 50.3. Run + 5.4. Images 1-2. Steadiness 1-2. F.P. 9.50.

## Canopus.

1881, September 28.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
3	18.0	47.590	45.089	92.718	3	23.5	52.542	55.052	107.642
3	37.0	45.103	47.589	92.729	3	29.5	55.031	52.522	107.598
3	44.0	47.566	45.106	92.708	3	49.5	52.524	55.008	107.574
4	5.0	45.123	47.605	92.761	3	56.5	55.023	52.529	107.593

Bar. 30.31. Ther. 56.0. Run + 5.6. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Sirius.

1881, September 28.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
4	24.9	191.379	193.859	385.398	4	31.6	197.072	194.571	391.806
4	48.9	193.843	191.366	385.353	4	41.7	194.594	197.051	391.801
4	56.6	191.365	193.847	385.351	5	3.5	197.048	194.506	391.757
5	21.2	193.870	191.364	385.364	5	13.3	194.595	197.074	391.805

Bar. 30.31. Ther. 55.3. Run + 2.8. Images 2. Steadiness 2. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, September 30.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
19	20.1	192.042	194.523	386.684	19	25.6	243.227	240.749	484.120
19	39.5	194.517	192.003	386.649	19	32.6	240.785	243.245	484.177
19	46.3	192.010	194.510	386.654	19	55.7	243.247	240.747	484.157
20	16.1	194.479	191.972	386.615	20	6.1	240.791	243.232	484.197

Bar. 30.20. Ther. 60.0. Run + 3.5. Images 2-3. Steadiness 2-3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, October 4.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
21	0.7	240.706	243.159	484.150	21	6.9	194.435	191.913	386.620
21	19.9	243.176	240.618	484.155	21	13.7	191.952	194.442	386.689
21	26.6	240.661	243.152	484.206	21	33.6	194.412	191.928	386.717
21	54.1	243.066	240.521	484.167	21	44.2	191.841	194.339	386.611

Bar. 30.07. Ther. 58.5. Run + 4.3. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Canopus.

1881, October 4.

a				b			
h	m	r	R	h	m	r	R
1	47.2	52.533	54.987	1	53.9	47.560	45.067
2	10.3	54.981	52.531	2	2.1	45.103	47.552
2	16.2	52.507	55.018	2	24.8	47.554	45.109
2	40.3	55.002	52.526	2	33.5	45.100	47.599

in  
Bar. 30.07. Ther. 57.0. Run + 4.7. Images 2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1881, October 6.

a				b			
h	m	r	R	h	m	r	R
19	51.7	192.000	194.490	19	59.2	243.230	240.750
20	16.2	194.481	192.011	20	8.9	240.750	243.225
20	22.2	192.015	194.466	20	30.0	243.220	240.745
20	46.7	194.447	191.944	20	38.1	240.702	243.293

in  
Bar. 30.07. Ther. 56.0. Run + 3.3. Images 1-2. Steadiness 2.

 $\epsilon$  Indi.

1881, October 6.

b				a			
h	m	r	R	h	m	r	R
23	11.7	204.349	201.919	23	20.7	228.466	230.961
23	48.7	201.878	204.342	23	32.2	230.985	228.476
23	56.6	204.351	201.891	0	4.8	228.475	230.955
0	25.4	201.845	204.364	0	17.8	230.936	228.479

in  
Bar. 30.08. Ther. 54.8. Run + 4.2. Images 2. Steadiness 2. F.P. 9.50.

## Canopus.

1881, October 8.

b				a			
h	m	r	R	h	m	r	R
1	45.2	47.574	45.092	1	52.5	52.499	55.001
2	5.5	45.118	47.608	1	59.2	54.997	52.516
2	12.2	47.592	45.129	2	18.0	52.512	54.977
2	33.3	45.115	47.582	2	25.7	55.001	52.532

in  
Bar. 30.10. Ther. 55.0. Run + 4.6. F.P. 9.50.

## Sirius.

1881, October 8.

a				b			
h	m	r	R	h	m	r	R
2	47.8	194.539	196.993	2	57.2	193.797	191.286
3	15.3	197.006	194.550	3	8.2	191.285	193.782
3	23.2	194.547	197.039	3	32.9	193.847	191.332
3	52.7	197.101	194.584	3	43.4	191.340	193.846

in  
Bar. 30.15. Ther. 54.5. Run + 3.7. Images 1-2. Steadiness 2.



$\alpha_2$  Centauri.

1881, October 10.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
20	17.3	243.211	240.716	484.119	20	26.0	192.010	194.478	386.671
20	45.6	240.716	243.200	484.164	20	36.6	194.479	191.987	386.668
20	54.6	243.200	240.692	484.165	21	5.0	191.950	194.440	386.663
21	29.4	240.628	243.104	484.152	21	19.8	194.422	191.909	386.657

in  
Bar. 30.32. Ther. 50.0. Run + 2.8. Images 1-2. Steadiness 2-3. F.P. 9.50.

 $\zeta$  Tucanae.

1881, October 10.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
22	0.9	200.572	203.039	403.760	22	8.2	197.955	195.422	393.530
22	25.6	203.032	200.539	403.722	22	16.9	195.444	197.940	393.538
22	34.4	200.523	203.039	403.714	22	44.8	197.923	195.459	393.539
23	5.3	203.049	200.519	403.723	22	55.1	195.438	197.939	393.534

in  
Bar. 30.32. Ther. 50.3. Run + 5.9. Images 1-2. Steadiness 2. F.P. 9.50.

 $\epsilon$  Indi.

1881, October 12.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
1	5.8	230.919	228.452	459.579	1	13.1	201.876	204.320	406.393
1	32.7	228.488	230.950	459.664	1	21.6	204.310	201.857	406.369
1	41.1	230.922	228.469	459.622	1	48.7	201.841	204.290	406.351
2	7.4	228.468	230.912	459.629	1	59.8	204.323	201.826	406.376

in  
Bar. 30.23. Ther. 57.5. Run + 3.7. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Sirius.

1881, October 12.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
2	33.1	193.741	191.300	385.402	2	40.7	194.464	196.947	391.775
2	59.5	191.337	193.775	385.391	2	53.0	196.932	194.492	391.744
3	6.8	193.762	191.313	385.337	3	15.8	194.532	196.904	391.757
3	34.0	191.360	193.798	385.369	3	26.8	196.983	194.539	391.761

in  
Bar. 30.22. Ther. 58.5. Run + 2.7. Images 3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, October 19.

$b$				$a$					
h	m	r	R	h	m	r	R		
20	51.0	243.195	240.774	484.226	20	58.1	192.016	194.435	386.697
21	17.3	240.695	243.133	484.179	21	8.4	194.381	191.992	386.651
21	23.2	243.126	240.702	484.206	21	29.7	191.960	194.346	386.666
21	46.1	240.641	243.032	484.191	21	38.2	194.350	191.969	386.718

in  
Bar. 30.20. Ther. 58.3. Run + 4.6. Images 2-3. Steadiness 2-3. F.P. 9.50.

♄ Indi.

1881, October 19.

b				a			
h	m	r	R	h	m	r	R
0	58.2	201.891	204.307	1	7.2	230.914	228.452
1	24.0	204.286	201.830	1	16.3	228.488	230.926
1	31.3	201.882	204.311	1	38.0	230.895	228.464
1	55.0	204.278	201.847	1	47.3	228.493	230.876

in  
Bar. 30.22. Ther. 60.0. Run + 4.0. Images 2-3. Steadiness 2-3. F.P. 9.50.

Sirius.

1881, October 19.

a				b			
h	m	r	R	h	m	r	R
2	16.1	194.455	196.877	2	25.2	193.663	191.246
2	43.1	197.914	194.534	2	35.4	191.281	193.701
2	49.5	194.514	196.950	2	57.6	193.707	191.278
3	17.0	197.004	194.571	3	7.8	191.308	193.746

in  
Bar. 30.22. Ther. 60.0. Run + 1.8. Images 1-2. Steadiness 2. F.P. 9.50.

α<sub>2</sub> Centauri.

1881, October 24.

a				b			
h	m	r	R	h	m	r	R
21	35.1	194.383	191.969	21	40.7	240.667	243.075
21	54.0	191.913	194.279	21	47.4	242.991	240.635
22	1.1	194.277	191.845	22	9.2	240.573	242.908
22	26.8	191.759	194.072	22	17.7	242.845	240.456

in  
Bar. 30.01. Ther. 54.5. Run + 3.2. Images 2-3. Steadiness 2-3. F.P. 9.50.

♄ Indi.

1881, October 28.

a				b			
h	m	r	R	h	m	r	R
1	47.8	228.437	230.904	1	57.8	204.269	201.803
2	19.7	230.868	228.426	2	9.6	201.769	204.307
2	24.3	228.426	230.884	2	31.9	204.247	201.797
2	48.8	230.860	228.406	2	41.7	201.795	204.228

in  
Bar. 29.98. Ther. 46.8. Run + 4.2. Images 2. Steadiness 2. F.P. 9.50.

Sirius.

1881, October 28.

b				a			
h	m	r	R	h	m	r	R
3	9.2	193.782	191.302	3	18.1	194.541	197.030
3	36.0	191.307	193.772	3	27.1	197.014	194.512
3	45.2	193.794	191.293	3	53.4	194.568	197.043
4	14.1	191.327	193.799	4	4.2	197.044	194.565

in  
Bar. 29.90. Ther. 47.3. Run + 2.8. Images 1. Steadiness 1-2. F.P. 9.50.

## Sirius.

1881, October 30.

a				b			
h	m	r	R	h	m	r	R
2	58.9	196.989	194.473	3	6.5	191.264	193.755
3	20.9	194.521	196.997	3	14.9	193.744	191.279
3	27.2	197.000	194.478	3	41.8	191.317	193.783
3	57.6	194.577	197.041	3	49.2	193.789	191.299

Bar. 30.38. Ther. 47.0. Run + 2.2. Images 1-2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, October 31.

b				a			
h	m	r	R	h	m	r	R
21	35.3	243.087	240.564	21	45.9	191.846	194.339
22	4.3	240.534	242.955	21	55.0	194.326	191.812
22	12.1	242.917	240.443	22	19.2	191.742	194.216
22	32.8	240.321	242.738	22	26.1	194.189	191.674

Bar. 30.40. Ther. 52.0. Run + 3.1. Images 2-3. Steadiness 2-3. F.P. 9.50.

 $\epsilon$  Indi.

1881, October 31.

b				a			
h	m	r	R	h	m	r	R
1	31.0	204.288	201.823	1	38.4	228.403	230.887
1	57.2	201.827	204.296	1	46.9	230.884	228.427
2	3.9	204.295	201.799	2	11.9	228.404	230.839
2	27.7	201.805	204.260	2	20.6	230.886	228.401

Bar. 30.35. Ther. 50.5. Run + 3.5. Images 2. Steadiness 2-3. F.P. 9.50.

 $\epsilon$  Indi.

1881, November 3.

a				b			
h	m	r	R	h	m	r	R
23	45.5	228.456	230.932	23	51.0	204.358	201.877
0	7.4	230.919	228.447	23	59.1	201.879	204.321
0	15.1	228.437	230.945	0	23.2	204.327	201.865
0	41.6	230.907	228.432	0	33.0	201.875	204.346

Bar. 30.09. Ther. 60.2. Run + 2.7. Images 2. Steadiness 2-3. F.P. 9.50.

 $\epsilon$  Indi.

1881, November 5.

b				a			
h	m	r	R	h	m	r	R
0	12.1	204.320	201.856	0	18.8	228.460	230.918
0	32.5	201.865	204.331	0	26.2	230.921	228.453
0	38.4	204.325	201.840	0	45.2	228.467	230.900
1	3.1	201.838	204.326	0	51.2	230.903	228.447

Bar. 30.02. Ther. 60.4. Run + 3.2. Images 2. Steadiness 2-3. F.P. 9.50.

ε Indi.

1881, November 7.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
1	48.2	230.881	228.402	459.516	1	54.3	201.856	204.327	406.405
2	12.6	228.437	230.882	459.571	2	5.5	204.316	201.847	406.393
2	18.3	230.861	228.403	459.521	2	25.4	201.833	204.278	406.355
2	43.1	228.419	230.879	459.573	2	33.6	204.304	201.820	406.374

in  
Bar. 30.00. Ther. 55.3. Run + 3.7. Images 3. Steadiness 3. F.P. 9.50.

Sirius.

1881, November 7.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
3	2° 0	191° 301	193° 739	385° 313	3	9° 4	196° 997	194° 550	391° 823
3	26° 1	193° 771	191° 333	385° 328	3	18° 6	194° 558	196° 996	391° 808
3	33° 5	191° 353	193° 785	385° 351	3	40° 2	197° 038	194° 566	391° 820
3	56° 8	193° 788	191° 340	385° 312	3	48° 4	194° 577	197° 003	391° 785

in  
Bar. 29.96. Ther. 54.8. Run + 2.8. Images 2-3. Steadiness 2-3.

α<sub>2</sub> Centauri.

1881, November 13.

a				b				
h	m	r	R	h	m	r	R	
6	46.8	194.412	191.894	6	55.0	240.569	243.022	484.071
7	21.1	192.012	194.492	7	7.6	243.067	240.661	484.121
7	30.9	194.487	192.040	7	39.7	240.690	243.147	484.090
7	55.7	192.025	194.495	7	48.5	243.188	240.666	484.082

in  
Bar. 30.15. Ther. 47.9. Run + 3.2. Images 3. Steadiness 3.

Sirius.

1881, November 14.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
2	17.0	196.858	194.387	391.730	2	25.0	191.237	193.734	385.368
2	40.1	194.419	196.941	391.726	2	32.3	193.724	191.272	385.361
2	48.0	196.900	194.429	391.666	2	56.7	191.325	193.763	385.375
3	14.8	194.488	197.005	391.757	3	4.8	193.792	191.277	385.336

in  
Bar. 30.07. Ther. 53.5. Run + 2.0. Images 3. Steadiness 3. F.P. 9.50.

ε Indi.

1881, November 15.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
0	54.1	201.844	204.341	406.369	1	1.2	230.935	228.407	459.547
1	15.8	204.312	201.836	406.346	1	9.6	228.426	230.896	459.532
1	23.2	201.854	204.340	406.396	1	31.2	230.890	228.397	459.511
1	48.7	204.313	201.848	406.381	1	39.7	228.417	230.891	459.537

in  
Bar. 30.04. Ther. 55.5. Run + 5.1. Images 1. Steadiness 2. F.P. 9.50.

ε Indi.

1881, November 18.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
0	46.3	230.894	228.414	459.507	0	53.9	201.858	204.333	406.378
1	9.7	228.418	230.909	459.539	1	2.5	204.309	201.888	406.389
1	16.6	230.899	228.409	459.525	1	23.5	201.841	204.326	406.372
1	40.5	228.423	230.879	459.534	1	33.9	204.323	201.803	406.339

in  
Bar. 30.25. Ther. 52.5. Run + 4.1. Images 2. Steadiness 2. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, November 18.

b					a				
h	m	r	r	R	h	m	r	r	R
6	54.9	240.551	243.048	484.077	7	6.0	194.444	191.976	386.657
7	25.6	243.136	240.658	484.095	7	15.7	191.974	194.483	386.665
7	33.3	240.667	243.164	484.104	7	43.3	194.489	191.998	386.639
8	3.5	243.174	240.742	484.112	7	55.0	192.017	194.492	386.648

in  
Bar. 30.26. Ther. 51.2. Run + 3.8. Images 2. Steadiness 2-3. F.P. 9.50.

Sirius.

1881, November 19.

b					a				
h	m	r	r	R	h	m	r	r	R
3	33°0	191°302	193°776	385°290	3	39°9	197°033	194°541	391°791
3	55°5	193°816	191°293	385°294	3	47°8	194°554	197°032	391°791
4	2°1	191°312	193°768	385°257	4	11°1	197°053	194°560	391°791
4	28°4	193°824	191°324	385°302	4	20°4	194°609	197°048	391°828

in  
Bar. 30.01. Ther. 57.0. Run + 3.7. Images 2. Steadiness 2. F.P. 9.50.

ε Indi.

1881, November 24.

b				a					
h	m	r	R	h	m	r	R		
2	36.1	201.821	204.314	406.386	2	43.2	230.867	228.404	459.546
2	59.8	204.235	201.841	406.346	2	51.5	228.395	230.840	459.518
3	8.1	201.837	204.282	406.395	3	16.1	230.842	228.405	459.549
3	37.3	204.269	201.789	406.358	3	28.3	228.415	230.896	459.622

in  
Bar. 30.18. Ther. 57.9. Run + 3.5. Images 3. Steadiness 3. F.P. 9.50.

Sirius.

1881, November 25.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
4	3.6	194.596	197.093	391.875	4	10.9	193.811	191.328	385.308
4	28.5	197.073	194.594	391.830	4	21.3	191.323	193.844	385.327
4	36.5	194.603	197.037	391.796	4	43.0	193.815	191.326	385.285
4	58.7	197.067	194.590	391.799	4	51.8	191.351	193.824	385.315

in  
Bar. 29.98. Ther. 58.8. Run + 2.0. Images 1-2. Steadiness 1-2. F.P. 9.50.

$\alpha_2$  Centauri.

1881, November 25.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
7	40.8	192.001	194.520	386.673	7	47.8	243.151	240.653	484.027
8	4.2	194.500	192.006	386.632	7	55.9	240.666	243.174	484.044
8	12.0	192.024	194.503	386.647	8	19.4	243.161	240.690	484.019
8	34.6	194.512	192.014	386.637	8	26.9	240.691	243.194	484.045

in  
Bar. 29.93. Ther. 59.5. Run + 2.5. Images 2-3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, November 28.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
7	40.1	243.166	240.719	484.136	7	48.9	192.056	194.526	386.728
8	6.6	240.729	243.270	484.189	7	57.1	194.531	192.063	386.731
8	14.5	243.213	240.706	484.099	8	21.2	192.058	194.575	386.752
8	39.2	240.783	243.267	484.204	8	29.8	194.547	192.051	386.714

in  
Bar. 30.04. Ther. 47.7. Run + 4.5. Images 1-2. Steadiness 2-3. F.P. 9.50.

## Sirius.

1881, December 1.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
3	7.6	193.776	191.269	385.307	3	14.6	194.587	197.036	391.889
3	26.6	191.323	193.796	385.344	3	20.1	197.077	194.582	391.915
3	33.0	193.790	191.332	385.338	3	39.6	194.615	197.092	391.928
3	55.4	191.339	193.815	385.341	3	47.6	197.024	194.667	391.900

in  
Bar. 30.25. Ther. 53.5. Run + 2.4. Images 1-2. Steadiness 2. F.P. 9.50.

 $\epsilon$  Eridani.

1881, December 1.

<i>a</i>					<i>b</i>				
h	m	r	R		h	m	r	R	
5	26.0	256.857	254.353	511.380	5	33.9	267.842	270.311	538.327
5	50.9	254.378	256.853	511.406	5	41.8	270.327	267.832	538.335
5	59.8	256.870	254.367	511.414	6	7.6	267.845	270.334	538.359
6	23.0	254.387	256.821	511.389	6	15.6	270.301	267.861	538.345

in  
Bar. 30.25. Ther. 55.0. Run + 4.0. Images 1-2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, December 4.

<i>a</i>					<i>b</i>				
h	m	r	R		h	m	r	R	
7	58.0	192.089	194.484	386.705	8	6.3	243.157	240.750	484.092
8	20.9	194.513	192.054	386.682	8	13.5	240.766	243.209	484.151
8	44.4	192.072	194.480	386.660	8	50.0	243.187	240.756	484.096
8	56.2	194.491	192.088	386.686	9	4.7	243.170	240.777	484.085

in  
Bar. 29.97. Ther. 60.5. Run + 4.3. Images 2. Steadiness 2. F.P. 9.50.

## e Eridani.

1881, December 8.

b				a			
h	m	r	R	h	m	r	R
5	25.9	267.878	270.308	5	33.5	256.814	254.400
5	47.2	270.292	267.871	5	40.3	254.419	256.803
5	53.7	267.882	270.290	6	3.3	256.805	254.415
6	21.5	270.305	267.890	6	12.7	254.393	256.839
			538.358				511.384
			538.340				511.395
			538.350				511.398
			538.378				511.411

Bar. 30.16. Ther. 54.0. Run + 4.8. Images 1-2. Steadiness 1-2. F.P. 9.50.

## e Eridani.

1881, December 9.

a				b			
h	m	r	R	h	m	r	R
6	6.6	254.446	256.851	6	13.2	270.298	267.898
6	26.6	256.825	254.447	6	19.8	267.896	270.299
6	32.9	254.422	256.822	6	39.0	270.326	267.884
6	54.9	256.809	254.423	6	46.1	267.883	270.311
			511.472				537.375
			511.452				537.375
			511.426				537.394
			511.419				537.380

Bar. 30.11. Run + 1.5. Images 1-2. Steadiness 2. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, December 9.

b				a			
h	m	r	R	h	m	r	R
7	9.2	243.118	240.646	7	16.8	192.060	194.486
7	32.1	240.741	243.144	7	23.9	194.447	192.064
7	40.6	243.142	240.760	7	50.2	192.082	194.454
8	6.5	240.763	243.209	7	59.4	194.499	192.059
			484.137				386.746
			484.156				386.694
			484.146				386.676
			484.158				386.689

Bar. 30.07. Ther. 60.0. Run + 3.3. Images 2. Steadiness 2-3. F.P. 9.50.

## ζ Tucanae.

1881, December 10.

a				b			
h	m	r	R	h	m	r	R
5	0.7	195.498	197.901	5	6.3	202.972	200.595
5	19.0	197.938	195.502	5	12.3	200.582	202.998
5	24.7	195.497	197.877	5	31.4	203.011	200.581
5	45.7	197.910	195.502	5	39.0	200.605	202.989
			393.511				403.680
			393.556				403.694
			393.492				403.714
			393.541				403.719

Bar. 30.05. Ther. 61.3. Run + 2.6. Images 2-3. Steadiness 2-3. F.P. 9.50.

## ε Indi.

1881, December 11.

a				b			
h	m	r	R	h	m	r	R
1	39.9	228.500	230.861	1	45.9	204.286	201.868
2	0.1	230.871	228.502	1	52.0	201.888	204.299
2	5.4	228.497	230.852	2	13.1	204.347	201.926
2	29.0	230.852	228.468	2	22.1	201.919	204.281
			459.588				406.369
			459.614				406.406
			459.594				406.505
			459.583				406.440

Bar. 30.12. Ther. 62.0. Run + 5.1. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Sirius.

1881, December 12.

a				b			
h	m	r	R	h	m	r	R
2	58.0	194.616	196.975	3	4.2	193.734	191.335
3	18.7	196.990	194.613	3	13.0	191.341	193.773
3	24.8	194.621	197.076	3	32.5	193.747	191.350
3	48.9	197.030	194.645	3	40.7	191.369	193.765
			391.893				385.335
			391.854				385.359
			391.936				385.308
			391.878				385.333

in  
Bar. 30.04. Ther. 63.0. Run + 2.6. Images 2-3. Steadiness 2-3. F.P. 9.50.

## ζ Tucanae.

1881, December 13.

b				a			
h	m	r	R	h	m	r	R
4	13.0	202.982	200.573	4	18.8	195.519	197.928
4	31.3	200.684	203.019	4	25.3	197.909	195.529
4	38.0	202.955	200.608	4	45.0	195.496	197.862
4	57.0	200.622	203.022	4	51.4	197.908	195.502
			403.667				393.556
			403.814				393.547
			403.674				393.467
			403.756				393.525

in  
Bar. 29.99. Ther. 61.0. Run + 3.1. Images 2-3. Steadiness 3. F.P. 9.50.

## ε Indi.

1881, December 16.

b				a			
h	m	r	R	h	m	r	R
1	53.0	204.338	201.862	1	58.9	228.477	230.873
2	14.6	201.889	204.296	2	8.4	230.787	228.485
2	20.5	204.246	201.807	2	28.3	228.475	230.887
2	44.9	201.892	204.246	2	37.2	230.818	228.485
			406.419				459.589
			406.418				459.518
			406.381				459.623
			406.394				459.570

in  
Bar. 29.89. Ther. 60.0. Run + 2.2. Images 3. Steadiness 3. F.P. 9.50.

## e Eridani.

1881, December 16.

b				a			
h	m	r	R	h	m	r	R
5	20.5	270.287	267.891	5	27.5	254.422	256.810
5	43.5	267.916	270.278	5	36.6	256.822	254.429
5	55.2	270.301	267.906	6	5.9	254.482	256.822
6	22.4	267.854	270.307	6	14.8	256.839	254.430
			538.344				511.397
			538.366				511.418
			538.381				511.478
			538.340				511.445

in  
Bar. 29.90. Ther. 61.5. Run + 4.3. Images 2-3. Steadiness 2-3. F.P. 9.50.

## ε Indi.

1881, December 17.

a				b			
h	m	r	R	h	m	r	R
2	48.7	228.478	230.860	2	55.1	204.259	201.895
3	19.6	230.802	228.448	3	13.1	201.885	204.217
			459.617				406.420
			459.554				406.382

in  
Bar. 30.24. Ther. 60.0. Run + 3.7. Images 2. Steadiness 2-3. F.P. 9.50.



## Sirius.

1881, December 18.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
3	57.0	193.765	191.393	385.341	4	6.1	194.628	196.996	391.808
4	20.1	191.405	193.763	385.331	4	12.7	197.010	194.659	391.847
4	27.2	193.788	191.419	385.364	4	34.1	194.676	197.019	391.856
4	50.2	191.378	193.770	385.291	4	43.1	197.079	194.676	391.909

in  
Bar. 30.22. Ther. 58.0. Run + 2.3. Images 2-3. Steadiness 2-3. F.P. 9.50.

## ε Eridani.

1881, December 18.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
5	56.4	270.265	267.910	538.352	6	4.6	254.429	256.800	511.406
6	18.6	267.896	270.291	538.369	6	12.1	256.793	254.421	511.392
6	24.5	270.309	267.885	538.377	6	32.7	254.409	256.798	511.391
6	51.9	267.893	270.273	538.354	6	42.1	256.795	254.421	511.402

in  
Bar. 30.22. Ther. 57.0. Run + 4.3. Images 1-2. Steadiness 1-2. F.P. 9.50.

## ε Indi.

1881, December 20.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
2	36.5	204.232	201.902	406.383	2	47.8	228.486	230.801	459.562
3	3.3	201.874	204.253	406.396	2	54.5	230.802	228.447	459.530
3	12.6	204.237	201.892	406.405	3	21.1	228.440	230.818	459.559
3	44.5	201.892	204.206	406.399	3	35.3	230.791	228.457	459.561

in  
Bar. 30.02. Ther. 62.0. Run + 2.0. Images 2-3. Steadiness 3. F.P. 9.50.

## ε Eridani.

1881, December 21.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
5	37.2	254.419	256.842	511.430	5	44.6	270.297	267.910	538.380
6	4.2	256.933	254.296	511.404	5	52.3	267.886	270.293	538.354
6	11.1	254.331	256.913	511.420	6	18.3	270.385	267.775	538.339
6	41.0	256.908	254.322	511.414	6	30.2	267.776	270.410	538.367

in  
Bar. 30.10. Ther. 61.0. Run + 3.9. Images 2. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1881, December 23.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
9	2.6	194.482	192.032	386.621	9	9.8	240.768	243.212	484.119
9	23.4	192.021	194.529	386.659	9	17.6	243.227	240.703	484.068
9	29.7	194.539	191.997	386.646	9	36.7	240.744	243.231	484.111
9	53.9	192.027	194.475	386.615	9	44.9	243.194	240.726	484.056

in  
Bar. 30.09. Ther. 53.5. Run + 3.8. Images 1. Steadiness 2. F.P. 9.50.

## Sirius.

1881, December 24.

a				b			
h	m	r	R	h	m	r	R
4	12.0	197.061	194.611	4	18.9	191.319	193.816
4	35.4	194.604	197.119	4	26.6	193.820	191.348
4	42.8	197.087	194.617	4	49.5	191.368	193.807
5	7.7	194.629	197.089	4	59.0	193.832	191.329

Bar. 30.06. Ther. 60.8. Run + 4.0. Images 2-3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1881, December 25.

b				a			
h	m	r	R	h	m	r	R
7	17.2	240.642	243.147	7	25.0	194.470	192.002
7	41.0	243.167	240.688	7	32.7	192.026	194.484
7	50.0	240.714	243.153	7	59.1	194.492	192.001
8	15.8	243.220	240.707	8	7.0	192.014	194.473

Bar. 30.07. Ther. 59.0. Run + 2.6. Images 2. Steadiness 2. F.P. 9.50.

 $\epsilon$  Indi.

1882, January 4.

a				b			
h	m	r	R	h	m	r	R
3	9.0	230.828	228.384	3	17.2	201.845	204.315
3	33.4	228.388	230.784	3	24.1	204.288	201.835
3	41.0	230.779	228.395	3	47.8	201.872	204.253
4	1.8	228.387	230.803	3	55.6	204.258	201.822

Bar. 30.06. Ther. 66.0. Run + 2.6. Images 2-3. Steadiness 3. F.P. 9.58.

## Sirius.

1882, January 17.

b				a			
h	m	r	R	h	m	r	R
3	59.5	193.787	191.341	4	3.9	194.608	197.080
4	16.9	191.342	193.814	4	11.6	197.094	194.611
4	22.4	193.796	191.328	4	27.6	194.630	197.097
4	38.8	191.332	193.826	4	33.4	197.083	194.650

Bar. 30.04. Ther. 69.5. Run + 2.4. Images 2. Steadiness 2. F.P. 9.42.

 $\alpha_2$  Centauri.

1882, January 17.

a				b			
h	m	r	R	h	m	r	R
7	53.7	194.473	191.973	8	1.0	240.712	243.190
8	13.2	192.001	194.510	8	7.6	243.195	240.680
8	19.8	194.499	191.989	8	28.1	240.747	243.234
8	45.9	192.017	194.512	8	35.6	243.186	240.716

Bar. 30.05. Ther. 67.0. Run + 3.2. Images 2-3. Steadiness 2-3. F.P. 9.50.

## e Eridani.

1882, January 18.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
6	55.0	256.862	254.350	511.397	7	1.3	267.795	270.311	538.292
7	13.7	254.354	256.824	511.367	7	7.7	270.296	267.812	538.295
7	19.1	256.811	254.367	511.369	7	26.1	267.804	270.305	538.299
7	39.0	254.350	256.854	511.398	7	32.3	270.307	267.789	538.287

Bar. 30.07. Ther. 65.0. Run + 3.1. Images 2-3. Steadiness 3.

 α<sub>2</sub> Centauri.

1882, January 18.

b					a				
h	m	r	r	R	h	m	r	r	R
8	21.9	240.727	243.162	484.054	8	29.5	194.481	192.008	386.601
8	40.3	243.209	240.703	484.060	8	35.9	191.992	194.499	386.601
8	45.9	240.731	243.213	484.089	8	52.3	194.535	191.988	386.630
9	6.2	243.202	240.729	484.079	8	59.2	192.042	194.500	386.648

Bar. 30.11. Ther. 62.5. Run + 3.5. Images 2-3. Steadiness 2-3.

## e Eridani.

1882, January 19.

b					a				
h	m	r	r	R	h	m	r	R	
6	19.1	270.318	267.833	538.331	6	25.9	254.370	256.844	511.394
6	39.7	267.835	270.299	538.318	6	33.1	256.842	254.370	511.394
6	46.3	270.325	267.828	538.339	6	53.7	254.369	256.842	511.398
7	9.8	267.849	270.261	538.299	7	1.4	256.822	254.385	511.396

Bar. 30.15. Ther. 61.0. Run + 4.1. Images 2. Steadiness 2-3.

## ε Indi.

1882, January 20.

a				b					
h	m	r	R	h	m	r	R		
3	51.3	230.785	228.344	459.454	3	57.7	201.828	204.289	406.427
4	13.0	228.392	230.795	459.528	4	5.8	204.285	201.798	406.399
4	20.6	230.782	228.382	459.511	4	28.0	201.801	204.260	406.391
4	45.4	228.335	230.809	459.507	4	36.1	204.248	201.809	406.391

Bar. 30.05. Ther. 63.0. Run + 4.2. Images 2-3. Steadiness 3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1882, January 20.

$a^1$					$b^1$				
h	m	r	r	R	h	m	r	R	
10	34.5	108.670	108.678	217.472	10	48.9	114.133	114.140	228.391
10	41.9	108.716	108.729	217.564	10	55.2	114.129	114.143	228.387
11	19.0	108.708	108.740	217.548	11	3.5	114.140	114.150	228.401
11	26.7	108.721	108.747	217.565	11	10.2	114.169	114.157	228.434

Bar. 30.00. Ther. 61.5. Run + 0.7. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Sirius.

1882, January 21.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
3	48.0	197.061	194.620	3	53.7	191.346	193.788
4	6.1	194.651	197.098	4	0.0	193.774	191.347
4	13.0	197.123	194.652	4	20.9	191.361	193.767
4	35.2	194.654	197.104	4	28.9	193.785	191.353

in  
Bar. 30.03. Ther. 65.0. Run + 3.3. Images 2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, January 21.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
7	16.3	191.963	194.465	7	23.3	243.147	240.664
7	39.2	194.428	192.041	7	31.4	240.688	243.117
7	45.5	192.028	194.451	7	52.5	243.149	240.709
8	9.0	194.503	192.008	8	1.3	240.718	243.169

in  
Bar. 30.03. Ther. 65.0. Run + 2.7. Images 2. Steadiness 2-3.

 $\alpha_3$  Centauri.

1882, January 22.

<i>b</i> <sup>1</sup>				<i>a</i> <sup>1</sup>			
h	m	r	R	h	m	r	R
8	8.9	112.833	115.274	8	16.1	109.855	107.429
8	32.8	115.306	112.875	8	25.5	107.387	109.915
8	39.0	112.872	115.321	8	45.5	109.884	107.429
9	1.1	115.290	112.870	8	54.4	107.443	109.905

in  
Bar. 30.02. Ther. 69.5. Run + 2.9. Images 3. Steadiness 3. F.P. 9.50.

 $\zeta$  Tucanae.

1882, January 23.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
4	36.3	197.863	195.494	4	42.9	200.554	202.995
4	56.4	195.458	197.931	4	49.9	203.013	200.542
5	2.4	197.941	195.459	5	8.7	200.552	203.013
5	25.4	195.459	197.903	5	16.4	202.999	200.563

in  
Bar. 29.98. Ther. 65.0. Run + 2.4. Images 2-3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, January 28.

<i>a</i> <sup>1</sup>				<i>b</i> <sup>1</sup>			
h	m	r	R	h	m	r	R
10	19.6	107.515	109.952	10	26.4	115.321	112.915
10	40.1	109.933	107.510	10	34.1	112.944	115.355
10	47.1	107.515	109.923	10	54.0	115.341	112.954
11	10.8	109.944	107.523	11	2.5	112.958	115.346

in  
Bar. 29.92. Ther. 60.0. Run + 2.2. Images 2. Steadiness 2. F.P. 9.60.

$\alpha_2$  Centauri.

1882, February 3.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
8	6.9	241.936	241.907	484.029	8	17.4	193.257	193.234	386.608
8	12.1	241.966	241.949	484.093	8	23.1	193.224	193.248	386.587
8	46.2	241.955	241.951	484.052	8	29.7	193.256	193.273	386.642
8	51.7	241.969	241.982	484.095	8	37.4	193.233	193.245	386.589

in  
Bar. 29.89. Ther. 56.0. Run + 3.5. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, February 3.

$\delta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	r	R
10	29.2	114.138	114.134	228.403	10	50.3	108.734	108.723	217.573
10	39.3	114.133	114.106	228.365	10	59.0	108.727	108.728	217.566
11	25.0	114.145	114.146	228.390	11	8.3	108.730	108.729	217.569
11	32.5	114.155	114.148	228.399	11	16.0	108.734	108.739	217.580

in  
Bar. 29.81. Ther. 55.5. Run + 0.6. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1882, February 5.

$\alpha^1$					$\delta^1$				
h	m	r	r	R	h	m	r	R	
8	53.9	107.481	109.906	217.596	9	0.2	115.292	112.872	228.365
9	15.5	109.905	107.451	217.542	9	7.7	112.876	115.338	228.408
9	24.0	107.426	109.901	217.506	9	32.1	115.342	112.896	228.410
9	50.0	109.926	107.481	217.563	9	43.0	112.913	115.340	228.417

in  
Bar. 30.05. Ther. 59.0. Run + 2.3. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri,

1882, February 6.

$\delta^1$					$\alpha^1$				
h	m	r	R		h	m	r	R	
8	28.9	112.909	115.361	228.502	8	35.5	109.898	107.438	217.564
8	51.3	115.273	112.892	228.373	8	44.3	107.446	109.874	217.538
8	58.4	112.917	115.287	228.406	9	6.5	109.854	107.482	217.531
9	24.5	115.293	112.882	228.353	9	16.2	107.509	109.886	217.580

in  
Bar. 30.06. Ther. 62.5. Run + 0.4. Images 2. Steadiness 3. F.P. 9.50.

## Sirius.

1882, February 6.

$\delta$					$\alpha$				
h	m	r	r	R	h	m	r	r	R
9	37.3	191.399	193.840	385.373	9	44.3	197.086	194.652	391.874
10	2.3	193.801	191.338	385.287	9	54.3	194.636	197.069	391.848
10	8.3	191.334	193.789	385.275	10	14.4	197.122	194.661	391.986
10	28.1	193.776	191.313	385.258	10	21.1	194.671	197.118	391.948

in  
Bar. 30.05. Ther. 58.5. Run + 1.1. Images 3. Steadiness 3. F.P. 9.50.

$\alpha_2$  Centauri.

1882, February 8.

$\alpha^1$					$\delta^1$				
h	m	r	r	R	h	m	r	R	
12	16.0	107.543	109.969	217.592	12	22.0	115.366	112.963	228.410
12	36.5	109.972	107.543	217.590	12	29.4	112.980	115.377	228.436
12	43.5	107.545	109.981	217.600	12	50.3	115.400	112.960	228.435
13	7.4	109.991	107.557	217.617	13	0.3	112.947	115.395	228.415

in  
Bar. 30.22. Ther. 46.0. Run + 0.2. Images 2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, February 10.

$\delta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	r	R
11	14.6	115.323	112.921	228.349	11	21.9	107.562	109.972	217.632
11	38.2	112.957	115.361	228.414	11	29.5	109.929	107.517	217.542
11	48.3	115.375	112.988	228.455	11	56.4	107.546	109.927	217.558
12	14.5	112.968	115.357	228.408	12	5.5	109.963	107.572	217.618

in  
Bar. 29.97. Ther. 62.5. Run + 0.5. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, February 11.

$\alpha^1$					$\delta^1$				
h	m	r	r	R	h	m	r	R	
10	35.3	109.943	107.553	217.618	10	42.2	112.933	115.332	228.386
10	58.8	107.505	109.895	217.509	10	51.8	115.325	112.930	228.370
11	5.2	109.946	107.490	217.542	11	13.4	112.960	115.367	228.432
11	31.2	107.545	109.958	217.598	11	21.5	115.319	112.923	228.343

in  
Bar. 29.99. Ther. 70.0. Run + 2.0. Images 2-3. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, February 12.

$\delta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	r	R
10	18.1	112.907	115.313	228.356	10	25.3	109.884	107.521	217.534
10	42.0	115.254	112.960	228.337	10	34.2	107.544	109.954	217.622
10	50.5	112.941	115.312	228.370	10	57.7	109.957	107.525	217.592
11	19.4	115.342	112.943	228.389	11	9.7	107.497	109.935	217.537

in  
Bar. 29.99. Ther. 66.0. Run + 2.7. Images 3. Steadiness 3. F.P. 9.5b.

 $\alpha_2$  Centauri.

1882, February 13.

$\alpha^1$					$\delta^1$				
h	m	r	r	R	h	m	r	R	
12	11.3	107.563	109.960	217.603	12	17.0	115.332	112.954	228.368
12	35.3	109.999	107.547	217.620	12	28.4	112.958	115.362	228.398
12	41.0	107.513	109.937	217.521	12	47.0	115.389	112.955	228.418
13	2.9	110.001	107.528	217.598	12	57.4	112.939	115.391	228.402

in  
Bar. 30.00. Ther. 67.0. Run + 0.4. Images 2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.

1882, February 14.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
7	50.4	192.009	194.453	386.600	7	57.1	243.140	240.713	484.053
8	11.0	194.470	191.991	386.580	8	3.9	240.727	243.160	484.076
8	17.0	192.029	194.460	386.605	8	25.7	243.165	240.751	484.075
8	44.1	194.454	192.065	386.627	8	36.7	240.762	243.169	484.080

in  
Bar. 29.99. Ther. 67.0. Run + 4.0. Images 1-2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, February 16.

$b^1$					$a^1$				
h	m	r	r	R	h	m	r	r	R
11	47.0	114.157	114.166	228.417	11	54.1	108.748	108.724	217.560
12	13.0	114.156	114.149	228.391	12	7.3	108.742	108.784	217.609
12	19.2	114.159	114.171	228.413	12	26.2	108.760	108.749	217.587
12	36.5	114.218	114.159	228.456	12	42.6	108.770	108.748	217.592

in  
Bar. 30.21. Ther. 59.0. Run + 2.3. Images 1. Steadiness 1. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, February 17.

$a^1$					$b^1$				
h	m	r	r	R	h	m	r	R	
8	16.1	109.895	107.467	217.614	8	23.6	112.893	115.285	228.415
8	38.4	107.463	109.883	217.571	8	31.7	115.304	112.859	228.392
8	45.8	109.877	107.464	217.557	8	54.5	112.886	115.260	228.351
9	13.7	107.464	109.903	217.554	9	4.6	115.293	112.865	228.353

in  
Bar. 30.10. Ther. 64.0. Run + 2.5. Images 3. Steadiness 3. F.P. 9.50.

## Sirius.

1882, February 17.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
9	45 <sup>8</sup>	197 <sup>0</sup> 054	194 <sup>6</sup> 660	391 <sup>8</sup> 849	9	53 <sup>3</sup>	191 <sup>4</sup> 405	193 <sup>8</sup> 844	385 <sup>3</sup> 392
10	9 <sup>9</sup>	194 <sup>6</sup> 686	197 <sup>1</sup> 105	391 <sup>9</sup> 940	10	0 <sup>3</sup>	193 <sup>7</sup> 787	191 <sup>3</sup> 355	385 <sup>2</sup> 288
10	21 <sup>3</sup>	197 <sup>0</sup> 053	194 <sup>6</sup> 677	391 <sup>8</sup> 888	10	31 <sup>4</sup>	191 <sup>3</sup> 370	193 <sup>7</sup> 733	385 <sup>2</sup> 273
10	47 <sup>4</sup>	194 <sup>6</sup> 690	197 <sup>0</sup> 089	391 <sup>9</sup> 961	10	39 <sup>9</sup>	193 <sup>8</sup> 813	191 <sup>3</sup> 334	385 <sup>3</sup> 327

in  
Bar. 30.10. Ther. 62.5. Run + 1.9. Images 2-3. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, February 18.

b <sup>1</sup>					a <sup>1</sup>				
h	m	r		R	h	m	r	R	
9	28.5	114.088	114.090	228.352	9	40.6	108.670	108.738	217.571
9	34.2	114.117	114.094	228.380	9	47.9	108.703	108.727	217.587
10	11.2	114.151	114.134	228.426	9	56.0	108.686	108.659	217.495
10	19.5	114.119	114.123	228.378	10	3.4	108.686	108.693	217.524

in  
Bar. 30.08. Ther. 65.0. Run + 1.1. Images 3. Steadiness 3. F.P. 9.50.

## Sirius.

1882, February 19.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
9	21.6	193.797	193.778	385.299	9	27.8	194.713	194.713	391.953
9	41.6	191.398	191.366	385.296	9	34.5	197.096	197.143	391.968
9	51.6	191.413	191.386	385.336	9	58.7	197.113	197.110	391.962
10	13.6	193.805	193.780	385.336	10	5.4	194.700	194.664	391.906

in  
Bar. 29.86. Ther. 71.5. Run + 1.2. Images 2-3. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, February 25.

$a^1$					$b^1$				
h	m	r	r	R	h	m	r	R	
10	4.4	108.751	108.694	217.591	10	9.6	114.102	114.088	228.334
10	24.6	108.727	108.735	217.593	10	17.8	114.101	114.088	228.328
10	31.3	108.751	108.717	217.595	10	37.9	114.116	114.115	228.357
10	58.3	108.721	108.727	217.560	10	47.9	114.116	114.118	228.354

in  
Bar. 30.25. Ther. 61.5. Run + 3.6. Images 2. Steadiness 2. F.P. 9.50.

## Sirius.

1882, February 26.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
9	19.3	194.694	197.140	391.961	9	26.8	193.769	191.319	385.217
9	43.8	197.162	194.626	391.923	9	35.9	191.371	193.883	385.386
9	53.7	194.736	197.194	392.070	10	1.7	193.851	191.322	385.320
10	19.4	197.110	194.671	391.938	10	10.7	191.366	193.775	385.294

in  
Bar. 30.13. Ther. 63.0. Run + 0.4. Images 3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, March 3.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
9	47.9	243.196	240.760	484.090	10	16.1	191.991	194.468	386.575
10	51.4	240.715	243.165	484.024	10	42.1	194.436	192.038	386.595
10	56.4	243.175	240.749	484.069	11	14.4	192.000	194.443	386.570
					11	51.4	194.473	192.025	386.630

in  
Bar. 30.11. Ther. 60.0. Run + 2.9. Images 2-3. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, March 4.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
8	23.4	194.427	191.989	386.531	8	31.4	240.727	243.172	484.055
8	42.7	192.022	194.464	386.596	8	37.2	243.172	240.723	484.046
8	47.6	194.464	192.025	386.596	8	55.2	240.752	243.188	484.081
9	9.9	192.051	194.468	386.625	9	2.4	243.171	240.764	484.074

in  
Bar. 30.10. Ther. 60.0. Run + 2.3. Images 2. Steadiness 2-3.



$\alpha_2$ Centauri.					1882, March 4.				
$b^1$					$a^1$				
h	m	r	r	R	h	m	r	r	R
9	41.8	112.892	115.296	228.353	9	48.5	109.956	107.535	217.648
10	5.3	115.360	112.935	228.442	9	57.2	107.480	109.918	217.549
10	11.4	112.906	115.340	228.388	10	17.4	109.952	107.507	217.595
10	32.3	115.345	112.898	228.373	10	25.2	107.507	109.958	217.596
in									
Bar. 30.00.					Ther. 60.0.				
Run + 2.9.					Images 2.				
					Steadiness 2.				

$\zeta$ Tucanae.				1882, March 5.					
<i>a</i>				<i>b</i>					
h	m	r	R	h	m	r	R		
6	32.9	197.867	195.448	393.497	6	41.1	200.505	202.928	403.624
6	54.3	195.400	197.820	393.444	6	47.0	202.918	200.508	403.629
7	2.3	197.820	195.382	393.445	7	10.2	200.474	202.866	403.599
7	26.8	195.395	197.760	393.473	7	19.3	202.899	200.455	403.642
in									
Bar. 30.15. Ther. 66°. Run + 2.8. Images 2. Steadiness 2-3. F.P. 9.50.									

$\alpha_2$  Centauri.
1882, March 5.

*b*
*a*

h	m	r	R	h	m	r	R		
11	17.7	240.725	243.196	484.070	11	22.3	194.488	192.012	386.617
11	36.6	243.178	240.724	484.063	11	30.0	192.014	194.458	386.601
11	42.0	240.735	243.148	484.035	11	49.8	194.459	191.996	386.586
12	3.5	243.176	240.727	484.058	11	57.2	192.013	194.456	386.601

Bar. 30.15.
Ther. 65°. Run + 3.7.
Images 1-2. Steadiness 1.
F.P. 9.50.

$\alpha_2$ Centauri.					1882, March 6.				
<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
8	14.8	194.424	191.986	386.530	8	21.6	240.716	243.154	484.037
8	35.5	192.044	194.417	386.572	8	28.4	243.158	240.750	484.068
8	42.2	194.465	192.046	386.621	8	49.1	240.743	243.175	484.063
9	5.2	192.012	194.457	386.576	8	58.0	243.202	240.752	484.095
in									
Bar. 30.14. Ther. 59.0. Run + 2.9. Images 2-3. Steadiness 2-3. F.P. 9.50.									

Sirius.					1882, March 6.				
<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
9	29.3	193.815	191.343	385.290	9	36.0	194.676	197.135	391.944
9	58.0	191.375	193.776	385.294	9	44.5	197.130	194.667	391.935
9	59.9	193.794	191.333	385.275	10	9.9	194.678	197.154	391.985
10	23.8	191.347	193.798	385.312	10	16.8	197.138	194.675	391.970
in									
Bar. 30.14.					Ther. 56°. Run + 1.8. Images 2. Steadiness 2-3.				

## Canopus.

1882, March 8.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
8	38 <sup>m</sup> .9	55 <sup>r</sup> .004	52 <sup>r</sup> .573	107 <sup>R</sup> .617	8	44 <sup>m</sup> .9	45 <sup>r</sup> .131	47 <sup>r</sup> .587	92 <sup>R</sup> .753
9	0 <sup>m</sup> .7	52 <sup>r</sup> .558	54 <sup>r</sup> .987	107 <sup>R</sup> .588	8	54 <sup>m</sup> .0	47 <sup>r</sup> .599	45 <sup>r</sup> .170	92 <sup>R</sup> .805
9	6 <sup>m</sup> .9	54 <sup>r</sup> .987	52 <sup>r</sup> .582	107 <sup>R</sup> .612	9	13 <sup>m</sup> .9	45 <sup>r</sup> .166	47 <sup>r</sup> .591	92 <sup>R</sup> .796
9	33 <sup>m</sup> .1	52 <sup>r</sup> .537	54 <sup>r</sup> .985	107 <sup>R</sup> .570	9	23 <sup>m</sup> .9	47 <sup>r</sup> .594	45 <sup>r</sup> .164	92 <sup>R</sup> .799

in  
Bar. 30.33. Ther. 58.0. Run + 3.6. Images 2. Steadiness 2. F.P. 9.50.

## Sirius.

1882, March 8.

a				b					
h	m	r	R	h	m	r	R		
9	52.8	194.679	197.163	391.984	10	0.2	193.776	191.346	385.271
10	17.2	197.145	194.652	391.954	10	8.7	191.342	193.765	385.261
10	25.3	194.704	197.093	391.961	10	34.2	193.769	191.345	385.291
10	48.7	197.106	194.621	391.915	10	41.4	191.328	193.812	385.324

in  
Bar. 30.33. Ther. 57.0. Run + 1.7. Images 2-3. Steadiness 2-3.

## e Eridani.

1882, March 9.

a					b				
h	m	r	R		h	m	r	R	
7	12.0	256.800	254.364	511.356	7	17.1	267.786	270.257	538.235
7	31.0	254.366	256.857	511.420	7	24.1	270.258	267.787	538.238
7	38.2	256.874	254.352	511.425	7	45.3	267.774	270.287	538.257
8	4.2	254.380	256.830	511.413	7	54.5	270.262	267.799	538.259

in  
Bar. 30.21. Ther. 60.0. Run + 3.2. Images 2. Steadiness 2-3. F.P. 9.50.

## e Indi.

1882, March 10.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
15	36.1	230.565	228.153	459.428	15	42.7	201.751	204.173	406.455
15	58.3	228.228	230.666	459.475	15	51.3	204.256	201.733	406.483
16	6.4	230.689	228.241	459.471	16	16.8	201.804	204.285	406.488
16	36.8	228.311	230.724	459.452	16	27.4	204.273	201.856	406.496

in  
Bar. 30.05. Ther. 55.0. Run + 3.5. Images 3. Steadiness 3. F.P. 9.50.

## e Eridani.

1882, March 11.

b					a				
h	m	r	r	R	h	m	r	R	
7	25.6	267.837	270.289	538.317	7	32.8	256.859	254.396	511.449
7	52.1	270.279	267.811	538.284	7	44.3	254.445	256.862	511.503
8	0.6	267.816	270.190	538.201	8	7.2	256.848	254.415	511.463
8	22.7	270.286	267.821	538.304	8	15.3	254.375	256.877	511.452

in  
Bar. 29.97. Ther. 63.0. Run + 2.2. Images 2-3. Steadiness 3-4. F.P. 9.50.

## Sirius.

1882, March 13.

$\delta$					$\alpha$				
h	m	r	R		h	m	r	R	
9	20.5	191.369	193.802	385.299	9	27.8	197.115	194.665	391.909
9	42.0	193.817	191.334	385.287	9	34.8	194.648	197.120	391.900
9	50.5	191.372	193.833	385.345	9	57.6	197.172	194.649	391.965
10	16.1	193.820	191.353	385.331	10	7.6	194.677	197.104	391.930

in  
Bar. 30.15. Ther. 61.0. Run + 2.0. Images 2. Steadiness 2. F.P. 9.50.

## ζ Tucanae.

1882, March 14.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
6	46.9	200.476	202.935	403.614	6	57.6	197.876	195.375	393.484
7	16.7	202.941	200.373	403.595	7	8.4	195.310	197.882	393.453
7	26.6	200.376	202.884	403.575	7	33.8	197.849	195.312	393.507
7	50.6	202.835	200.393	403.651	7	42.6	195.318	197.781	393.483

in  
Bar. 30.12. Ther. 61.5. Run + 2.5. Images 2-3. Steadiness 3. F.P. 9.50.

## Sirius.

1882, March 14.

a				b					
h	m	r	R	h	m	r	R		
10	36.6	197.088	194.624	391.885	10	43.0	191.349	193.781	385.314
10	57.6	194.606	197.109	391.912	10	51.6	193.781	191.314	385.290
11	4.8	197.112	194.620	391.941	11	11.8	191.314	193.738	385.282
11	28.3	194.649	197.095	392.001	11	21.3	193.734	191.304	385.292

in  
Bar. 30.13. Ther. 58.5. Run + 2.0. Images 2. Steadiness 2.

## Sirius.

1882, March 15.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
8	42.9	191.347	193.814	385.277	8	49.0	197.141	194.668	391.927
9	5.1	193.806	191.348	385.275	8	58.4	194.678	197.107	391.904
9	10.8	191.361	193.809	385.293	9	16.4	197.118	194.660	391.902
9	30.6	193.830	191.343	385.303	9	22.7	194.666	197.126	391.918

in  
Bar. 30.09. Ther. 64.5. Run + 1.6. Images 1-2. Steadiness 1-2. F.P. 9.50

## Sirius.

1882, March 16.

a					b				
h	m	r	r	R	h	m	r	R	
9	30.4	194.719	197.121	391.971	9	47.3	193.790	191.408	385.337
10	2.6	197.122	194.666	391.934	9	55.8	191.340	193.792	385.276
10	13.1	194.679	197.159	391.990	10	22.9	193.781	191.337	385.281
10	41.6	197.090	194.704	391.970	10	33.3	191.355	193.758	385.286

in  
Bar. 30.08. Ther. 60.0. Run + 2.9. Images 1-2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.

1882, March 17.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
10	47.6	240.776	243.185	484.105	10	54.3	194.452	192.012	386.586
11	8.3	243.192	240.758	484.097	11	1.4	192.017	194.465	386.607
11	16.3	240.748	243.215	484.112	11	25.1	194.480	192.016	386.625
11	42.4	243.201	240.768	484.122	11	34.0	192.047	194.439	386.616

in  
Bar. 30.17. Ther. 60.5. Run + 2.2. Images 1. Steadiness 2. F.P. 9.50.

 $\zeta$  Tucanae.

1882, March 20.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
7	8.2	195.465	197.848	393.572	7	16.4	202.868	200.442	403.588
7	29.6	197.793	195.372	393.493	7	23.0	200.480	202.865	403.646
7	36.9	195.379	197.755	393.491	7	44.4	202.838	200.384	403.612
8	0.7	197.742	195.285	393.498	7	54.0	200.384	202.766	403.590

in  
Bar. 30.14. Ther. 64.2. Run + 1.2. Images 2. Steadiness 2-3. F.P. 9.50.

## Sirius.

1882, March 20.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
10	7.2	193.769	191.367	385.286	10	14.8	194.685	197.103	391.940
10	33.7	191.373	193.738	385.284	10	24.6	197.091	194.679	391.931
10	42.2	193.743	191.332	385.256	10	53.5	194.739	197.061	391.991
11	12.9	191.370	193.717	385.317	11	4.0	197.059	194.650	391.913

in  
Bar. 30.14. Ther. 63.3. Run + 0.9. Images 3. Steadiness 3. F.P. 9.50.

## Sirius.

1882, March 21.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
10	30.0	194.713	197.089	391.967	10	36.6	193.779	191.324	385.279
10	54.3	197.087	194.652	391.930	10	46.9	191.335	193.740	385.262
11	1.1	194.687	197.069	391.958	11	7.3	193.721	191.332	385.272
11	26.1	197.063	194.660	391.972	11	17.1	191.346	193.716	385.302

in  
Bar. 30.21. Ther. 63.5. Run + 0.3. Images 2-3. Steadiness 3. F.P. 9.50.

## Canopus.

1882, March 23.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
10	36.2	45.185	47.566	92.807	10	44.8	54.960	52.560	107.590
11	4.4	47.555	45.183	92.802	10	57.1	52.575	54.927	107.578
11	11.6	45.128	47.539	92.733	11	19.8	54.938	52.560	107.585
11	36.3	47.578	45.185	92.839	11	29.2	52.556	54.943	107.592

in  
Bar. 30.00. Ther. 64.5. Run + 3.3. Images 2-3. Steadiness 3. F.P. 9.50.

$\alpha_2$  Centauri.

1882, March 23.

$a$			$b$		
h	m	R	h	m	R
12	1.1	192.036	12	7.0	243.181
12	22.0	194.505	12	14.7	240.767
12	29.8	192.036	12	37.2	243.192
12	55.9	194.464	12	46.9	243.177
		192.062			240.776
		386.629			243.190
		386.676			484.104
		386.625			484.109
		386.662			484.119
					484.126

Bar. 29.98. Ther. 63.0. Run + 3.3. Images 2. Steadiness 2.

## Canopus.

1882, March 24.

$a$			$b$		
h	m	R	h	m	R
10	16.5	52.627	10	21.6	47.543
10	35.1	54.974	10	28.0	45.182
10	42.3	52.589	10	48.3	47.558
11	3.3	54.945	10	56.1	45.173
		52.555			47.558
		107.639			92.755
		107.632			92.781
		107.611			92.807
		107.579			92.793

Bar. 29.87. Ther. 59.0. Run + 4.0. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, March 24.

$b$			$a$		
h	m	R	h	m	R
11	18.4	243.169	11	26.1	192.067
11	40.8	240.771	11	32.5	194.448
11	50.1	243.188	11	59.6	192.050
12	18.3	240.788	12	10.2	194.436
		243.184			192.020
		484.103			386.662
		484.106			386.605
		484.092			386.643
		484.129			386.589

Bar. 29.87. Ther. 59.0. Run + 2.7. Images 1-2. Steadiness 2.

## Canopus.

1882, March 31.

$b$			$a$		
h	m	R	h	m	R
11	19.7	47.483	11	25.1	52.607
11	38.0	45.205	11	32.1	54.891
11	44.6	47.475	11	52.4	52.592
12	7.3	45.171	12	0.2	54.882
		47.469			52.594
		92.756			107.590
		92.772			107.585
		92.754			107.614
		92.731			107.593

Bar. 30.06. Ther. 64.0. Run + 1.7. F.P. 9.50.

## Canopus.

1882, April 1.

$a$			$b$		
h	m	R	h	m	R
11	4.7	52.630	11	9.5	47.509
11	21.2	54.889	11	15.8	45.224
11	25.9	52.600	11	31.4	47.519
		54.887			45.162
		107.596			92.792
		107.568			92.807
		107.576			92.756

Bar. 30.05. Ther. 62.5. Run + 2.1. Images 2. Steadiness 2. F.P. 9.50.

ε Indi.

1882, April 2.

b				a			
h	m	r	R	h	m	r	R
15	56.3	201.788	204.140	16	2.4	230.586	228.290
16	15.9	204.109	201.849	16	9.9	228.375	230.622
16	20.2	201.830	204.226	16	25.3	230.588	228.296
16	39.2	204.175	201.931	16	32.4	228.401	230.631
			406.397				459.430
			406.356				459.517
			406.441				459.338
			406.437				459.461

Bar. 30.14. Ther. 62.0. Run + 2.3. Images 2-3. Steadiness 2-3.

ζ Tucanae.

1882, April 2.

b				a			
h	m	r	R	h	m	r	R
17	2.3	200.575	202.864	17	9.5	197.815	195.487
17	24.0	202.840	200.565	17	17.4	195.498	197.835
17	29.6	200.604	202.884	17	36.9	197.831	195.489
17	55.7	202.860	200.552	17	46.9	195.560	197.865
			403.658				393.470
			403.582				393.489
			403.655				393.454
			403.548				393.550

Bar. 30.15. Ther. 62.0. Run + 2.7. Images 2-3. Steadiness 2-3.

ε Indi.

1882, April 8.

a				b			
h	m	r	R	h	m	r	R
16	46.1	230.636	228.343	16	51.5	201.928	204.191
17	6.0	228.398	230.701	16	58.7	204.190	201.906
17	11.4	230.703	228.424	17	19.7	201.944	204.233
17	33.3	228.406	230.722	17	26.7	204.231	201.913
			459.369				406.425
			459.433				406.385
			459.449				406.429
			459.403				406.384

Bar. 30.01. Ther. 53.0. Run + 2.8. Images 1-2. Steadiness 2. F.P. 9.55.

α<sub>2</sub> Centauri.

1882, April 8.

a				b			
h	m	r	R	h	m	r	R
17	49.0	192.115	194.417	17	56.0	243.161	240.828
18	11.8	194.418	192.098	18	4.2	240.845	243.164
18	17.5	192.085	194.421	18	23.6	243.171	240.847
18	39.0	194.414	192.100	18	32.2	240.842	243.160
			386.642				484.128
			386.625				484.147
			386.615				484.154
			386.623				484.138

Bar. 30.01. Ther. 51.5. Run + 2.5. Images 1-2. Steadiness 2. F.P. 9.55.

α<sub>2</sub> Centauri.

1882, April 11.

b				a			
h	m	r	R	h	m	r	R
11	2.7	243.111	240.811	11	9.8	192.108	194.399
11	24.1	240.829	243.143	11	18.2	194.403	192.100
11	30.4	243.131	240.848				
			484.069				386.633
			484.123				386.631
			484.131				

Bar. 30.08. Ther. 56.5. Run + 1.2. Images 1-2. Steadiness 1-2. F.P. 9.50.

$\alpha_2$  Centauri.

1882, April 12.

a				b			
h	m	r	R	h	m	r	R
12	37.8	194.395	192.116	12	44.2	240.813	243.114
13	0.2	192.125	194.403	12	52.0	243.129	240.804
13	4.9	194.388	192.104	13	11.0	240.813	243.120
13	32.5	192.128	194.434	13	23.1	243.119	240.833

Bar. 30.05. Ther. 62.5. Run + 2.0. Images 2. Steadiness 2-3. F.P. 9.50.

 $\epsilon$  Indi.

1882, April 17.

b				a			
h	m	r	R	h	m	r	R
19	6.1	204.287	201.986	19	13.0	228.438	230.748
19	26.0	201.992	204.282	19	20.0	230.753	228.449
19	31.8	204.307	201.983	19	39.7	228.452	230.761
				19	48.7	230.760	228.454

Bar. 30.26. Ther. 60.0. Run + 2.2. Images 2. Steadiness 2-3. F.P. 9.50.

 $\epsilon$  Indi.

1882, April 18.

a				b			
h	m	r	R	h	m	r	R
17	45.7	228.417	230.746	17	52.6	204.219	201.953
18	8.7	230.718	228.429	17	59.3	201.964	204.292
18	15.2	228.466	230.753	18	23.2	204.257	201.972
18	38.0	230.759	228.453	18	30.2	201.990	204.273

Bar. 30.08. Ther. 61.0. Run + 1.4. Images 2-3. Steadiness 2-3.

 $\zeta$  Tucanae.

1882, April 18.

a				b			
h	m	r	R	h	m	r	R
18	51.3	195.549	197.842	18	59.9	202.869	200.582
19	16.7	197.830	195.518	19	8.7	200.589	202.894
19	24.1	195.559	197.852	19	31.3	202.885	200.604
19	47.4	197.832	195.552	19	41.3	200.584	202.857

Bar. 30.08. Ther. 57.5. Run + 1.3. Images 2-3. Steadiness 2-3.

 $\epsilon$  Indi.

1882, April 19.

b				a			
h	m	r	R	h	m	r	R
15	45.3	204.063	201.820	15	51.9	228.268	230.566
16	7.9	201.878	204.168	16	0.7	230.536	228.305
16	23.5	204.145	201.889	16	33.5	228.344	230.642
16	54.6	201.908	204.209	16	45.3	230.633	228.361

Bar. 30.03. Ther. 58.3. Run + 1.1. Images 2. Steadiness 3-4. F.P. 9.52.

$\alpha_2$  Centauri.

1882, April 21.

$a$				$b$			
h	m	r	R	h	m	r	R
13	4.2	194.395	192.120	13	13.4	240.827	243.107
13	31.6	192.126	194.386	13	22.4	243.107	240.807
13	39.7	194.390	192.104	14	1.2	240.818	243.103
14	26.3	192.134	194.396	14	13.3	243.110	240.843
			386.654				484.100
			386.652				484.081
			386.633				484.090
			386.666				484.122

in  
Bar. 30.17. Ther. 53°. Run + 2.4. Images 1-2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, April 22.

$b$				$a$			
h	m	r	R	h	m	r	R
11	29.3	240.812	243.119	11	39.4	194.388	193.086
11	59.8	243.096	240.817	11	49.9	192.096	194.399
12	11.8	240.807	243.109	12	26.8	194.408	192.097
12	52.7	243.088	240.825	12	40.3	193.097	194.399
			484.083				386.606
			484.071				386.628
			484.075				386.642
			484.076				386.633

in  
Bar. 30.18. Ther. 57°. Run + 1.2. Images 2-3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, April 25.

$a$				$b$			
h	m	r	R	h	m	r	R
13	19.6	194.370	192.099	13	33.5	240.815	243.124
13	19.6	194.416	192.118	13	33.5	240.804	243.116
14	0.9	192.123	194.395	13	48.3	243.090	240.812
14	0.9	192.115	194.403	13	48.3	243.111	240.836
			386.607				484.105
			386.672				484.086
			386.655				484.069
			386.655				484.114

in  
Bar. 30.15. Ther. 57°. Run + 1.6. Images 1-2. Steadiness 2. F.P. 9.52.

 $\epsilon$  Indi.

1882, April 25.

$a$				$b$			
h	m	r	R	h	m	r	R
15	51.4	228.224	230.522	15	59.0	204.118	201.849
16	15.6	230.559	228.308	16	7.3	201.846	204.123
16	23.9	228.311	230.615	16	34.0	204.155	201.953
			459.367				406.432
			459.368				406.402
			459.393				406.458

in  
Bar. 30.15. Ther. 54°. Run + 3.1. Images 2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, May 4.

$b$				$a$			
h	m	r	R	h	m	r	R
18	39.6	240.847	243.151	18	47.3	194.388	192.105
19	3.8	243.140	240.831	18	55.4	192.090	194.406
19	10.6	240.855	243.146	19	19.7	194.408	192.101
19	38.5	243.131	240.827	19	31.0	192.113	194.377
			484.133				386.604
			484.109				386.609
			484.131				386.628
			484.110				386.616

in  
Bar. 30.25. Ther. 57.3°. Run + 2.8. Images 2-3. Steadiness 2-3. F.P. 9.50.



## ζ Tucanae.

1882, May 4.

<i>b</i>					<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
19	52.6	202.897	200.573	403.589	20	0.6	195.530	197.833	393.485
20	18.8	200.577	202.887	403.587	20	10.8	197.811	195.529	393.464
20	26.1	202.868	200.568	403.562	20	35.3	195.522	197.807	393.461
20	55.2	200.591	202.889	403.612	20	46.1	197.829	195.507	393.470

Bar. 30.24. Ther. 57.8. Run + 2.3. Images 2-3. Steadiness 2-3.

## ε Indi.

1882, May 6.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
16	17.8	201.862	204.164	406.424	16	25.4	230.571	228.304	459.336
16	42.2	204.179	201.861	406.369	16	33.8	228.324	230.622	459.376
16	49.9	201.879	204.200	406.390	16	57.9	230.654	228.387	459.398
17	15.7	204.221	201.905	406.385	17	7.8	228.383	230.658	459.372

Bar. 30.07. Ther. 52.5. Run + 3.5. Images 2. Steadiness 2-3. F.P. 9.50.

 α<sub>2</sub> Centauri.

1882, May 6.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
17	27.0	192.100	194.438	386.649	17	35.8	243.144	240.812	484.099
17	52.2	194.402	192.111	386.622	17	43.2	240.845	243.150	484.136
18	1.1	192.126	194.427	386.662	18	9.9	243.138	240.824	484.100
18	25.7	194.433	192.113	386.655	18	17.1	240.823	243.138	484.098

Bar. 30.06. Ther. 51.5. Run + 2.7. Images 2. Steadiness 2-3.

 α<sub>2</sub> Centauri.

1882, May 11.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
19	29.5	243.104	240.829	484.078	19	39.1	192.133	194.423	386.686
19	55.7	240.840	243.099	484.104	19	49.3	194.406	192.095	386.638
20	5.8	243.128	240.813	484.116	20	14.2	192.085	194.403	386.651
20	36.5	240.820	243.089	484.133	20	25.3	194.396	192.082	386.658

Bar. 30.01. Ther. 54.0. Run + 3.6. Images 2-3. Steadiness 2-3. F.P. 9.50.

## ε Indi.

1882, May 18.

<i>a</i>				<i>b</i>					
h	m	r	R	h	m	r	R		
15	56.8	230.541	228.252	459.390	16	5.7	201.830	204.120	406.392
16	23.3	228.305	230.615	459.393	16	15.8	204.153	201.856	406.417
16	29.1	230.600	228.325	459.376	16	40.8	201.952	204.163	406.451
17	1.2	228.371	230.667	459.388	16	51.3	204.175	201.928	405.413

Bar. 30.22. Ther. 51.0. Run + 1.2. Images 2. Steadiness 3-4. F.P. 9.50.

$\alpha_2$  Centauri.

1882, May 18.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
17	22.0	192.137	194.417	386.677	17	29.8	243.124	240.814	484.082
17	48.4	194.400	192.121	386.632	17	38.8	240.827	243.140	484.110
17	57.2	192.113	194.427	386.650	18	9.0	243.124	240.830	484.093
18	27.4	194.405	192.130	386.645	18	17.0	240.818	243.122	484.078

Bar. 30.21. Ther. 50.5. Run + 3.3. Images 2. Steadiness 2-3.

 $\alpha_2$  Centauri.

1882, May 19.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
16	33.6	243.134	240.797	484.083	16	42.6	192.112	194.443	386.673
16	59.7	240.828	243.137	484.112	16	51.8	194.418	192.099	386.634
17	10.7	243.138	240.825	484.109	17	22.6	192.108	194.434	386.655
17	40.4	240.817	243.159	484.119	17	31.1	194.442	192.118	386.672

Bar. 30.02. Ther. 49.5. Run + 3.7. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, May 20.

<i>a</i>				<i>b</i>					
h	m	r	R	h	m	r	R		
11	32.2	194.412	192.087	386.630	11	39.2	240.776	243.125	484.055
12	1.0	192.092	194.450	386.677	11	47.8	243.135	240.788	484.079

Bar. 30.18. Ther. 55.0. Run + 3.0. Images 2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, May 21.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
11	18.4	243.109	240.796	484.057	11	25.8	192.095	194.440	386.667
11	43.8	240.816	243.132	484.105	11	35.1	194.408	192.098	386.640
11	49.9	243.113	240.788	484.069	11	58.7	192.108	194.432	386.676
12	22.8	240.794	243.138	484.095	12	12.4	194.445	192.108	386.690

Bar. 30.46. Ther. 54.8. Run + 2.7. Images 2-3. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, May 22.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
11	13.1	194.412	192.099	386.639	11	20.6	240.810	243.108	484.070
11	36.6	192.114	194.428	386.675	11	28.8	243.135	240.798	484.087
11	43.1	194.448	192.126	386.708	11	51.7	240.799	243.144	484.102
12	11.1	192.102	194.419	386.658	12	2.6	243.130	240.793	484.083

Bar. 30.28. Ther. 51.8. Run + 2.7. Images 1-2. Steadiness 2-3. F.P. 9.50.

$\alpha_2$  Centauri.

1882, May 22.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
17	47.9	240.819	243.111	484.073	17	56.7	194.423	192.088	386.622
18	14.8	243.143	240.786	484.069	18	5.7	192.107	194.442	386.660
18	21.7	240.818	243.162	484.119	18	28.9	194.474	192.091	386.676
18	48.8	243.115	240.818	484.073	18	41.6	192.109	194.436	386.657

in  
Bar. 30.28. Ther. 46.0. Run + 2.9. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, May 24.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
9	49.5	243.113	240.807	484.057	10	1.0	192.112	194.418	386.646
10	18.7	240.809	243.156	484.106	10	11.2	194.428	192.108	386.654
10	24.8	243.157	240.794	484.093	10	31.9	192.104	194.427	386.652
10	54.9	240.814	243.127	484.088	10	44.3	194.418	192.099	386.640

in  
Bar. 30.43. Ther. 57.0. Run + 1.9. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, May 25.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
9	52.4	192.011	194.546	386.670	10	2.6	243.207	240.709	484.053
10	18.4	194.527	192.026	386.670	10	10.2	240.716	243.205	484.060
10	26.2	192.038	194.503	386.660	10	33.2	243.207	240.715	484.064
10	53.6	194.523	192.020	386.667	10	44.1	240.711	243.232	484.087

in  
Bar. 30.40. Ther. 59.0. Run + 2.7. Images 2-3. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, May 25.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
19	17.1	192.026	194.516	386.664	19	23.6	243.219	240.708	484.074
19	39.8	194.498	191.993	386.623	19	31.6	240.684	243.212	484.046
19	48.1	192.029	194.512	386.680	19	55.9	243.208	240.696	484.073
20	13.2	194.487	192.008	386.660	20	4.1	240.722	243.188	484.086

in  
Bar. 30.38. Ther. 50.0. Run + 3.8. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1882, May 29.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
17	4 <sup>1</sup>	243 <sup>2</sup> 201	240 <sup>2</sup> 714	484 <sup>2</sup> 063	17	11 <sup>0</sup>	192 <sup>2</sup> 035	194 <sup>2</sup> 513	386 <sup>2</sup> 662
17	28 <sup>7</sup>	240 <sup>2</sup> 752	243 <sup>2</sup> 197	484 <sup>2</sup> 092	17	19 <sup>0</sup>	194 <sup>2</sup> 494	192 <sup>2</sup> 038	386 <sup>2</sup> 645
18	0 <sup>8</sup>	243 <sup>2</sup> 198	240 <sup>2</sup> 747	484 <sup>2</sup> 084	18	11 <sup>4</sup>	192 <sup>2</sup> 056	194 <sup>2</sup> 488	386 <sup>2</sup> 654
18	31 <sup>9</sup>	240 <sup>2</sup> 758	243 <sup>2</sup> 208	484 <sup>2</sup> 103	18	22 <sup>3</sup>	194 <sup>2</sup> 524	192 <sup>2</sup> 044	386 <sup>2</sup> 678

in  
Bar. 30.08. Ther. 49.0. Run + 1.9. Images 2. Steadiness 2. F.P. 9.50.

*e* Eridani.

1882, June 25.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
o	5.0	256.962	254.499	511.645	o	14.9	267.823	270.319	538.334
o	36.2	254.523	256.963	511.651	o	25.7	270.318	267.838	538.340
o	43.3	256.952	254.511	511.625	o	50.8	267.853	270.299	538.323
i	5.9	254.512	256.984	511.651	o	59.2	270.372	267.861	538.401

in  
Bar. 30.39. Ther. 50.0. Run + 3.5. Images 2-3. Steadiness 2-3. F.P. 9.50.

*e* Eridani.

1882, June 29.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
23 13.9		267.801	270.234	538.301	23 20.7		256.890	254.437	511.599
23 41.1		270.295	267.796	538.315	23 33.6		254.450	256.913	511.578
23 49.6		267.803	270.263	538.280	23 57.6		256.961	254.453	511.604
o 17.9		270.292	267.822	538.303	o 9.6		254.482	256.913	511.576

in  
Bar. 30.18. Ther. 45.5. Run + 3.6. Images 1-2. Steadiness 2. F.P. 9.50.

*e* Eridani.

1882, July 1.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
23	20.5	256.834	254.391	511.459	23	29.1	267.742	270.177	538.161
23	47.3	254.393	256.837	511.431	23	38.8	270.162	267.704	538.094
23	54.7	256.844	254.398	511.435	o	3.3	267.728	270.208	538.138
o	25.4	254.413	256.854	511.439	o	15.6	267.737	270.173	538.102

in  
Bar. 30.15. Ther. 42.8. Run + 2.2. Images 2. Steadiness 2-3. F.P. 9.50.

*e* Eridani.

1882, July 7.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	R	
23	45.2	270.159	267.709	538.083	23	52.8	254.406	256.845	511.442
o	14.4	267.736	270.195	538.119	o	6.0	256.849	254.386	511.415
o	30.4	270.213	267.746	538.137	o	38.9	254.413	256.856	511.430
o	55.1	267.749	270.201	538.115	o	45.3	256.848	254.410	511.417

in  
Bar. 30.15. Ther. 55.0. Run + 1.5. Images 2-3. Steadiness 2. F.P. 9.50.

*e* Eridani.

1882, July 9.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	R	
22	44.3	254.384	256.822	511.510	22	51.4	270.137	267.691	538.145
23	9.0	256.842	254.372	511.466	23	1.9	267.704	270.178	538.173
23	14.6	254.367	256.833	511.444	23	23.4	270.168	267.721	538.140
23	43.1	256.845	254.408	511.460	23	34.1	267.724	270.163	538.123

Ther. 44.0. Run + 1.5. Images 1-2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.

1882, August 1.

$a^1$			$b^1$		
h	m	R	h	m	R
18	11.1	110.076	18	17.5	112.815
18	31.5	107.603	18	24.4	115.289
18	37.5	110.042	18	46.0	112.886
19	3.0	107.596	18	55.6	115.248
		110.058			112.800
		217.781			228.239
		217.766			228.220
		217.774			228.320
		217.800			228.200

Bar. 30.47. Ther. 56.0. Run + 0.9. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, August 2.

$b^1$			$a^1$		
h	m	R	h	m	R
19	55.9	115.227	20	6.6	110.040
20	0.3	112.755	20	13.3	107.563
20	32.3	115.219	20	20.9	109.996
20	39.0	112.787	20	26.2	107.527
		115.206			110.011
		228.156			217.798
		228.205			217.788
		228.241			217.774
		228.268			217.766

Bar. 30.36. Ther. 58.0. Run + 3.0. Images 2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, August 3.

$a^1$			$b^1$		
h	m	R	h	m	R
19	17.0	107.585	19	31.3	112.829
19	23.8	110.031	19	37.7	115.238
20	1.7	107.534	19	46.3	112.803
20	10.4	110.026	19	51.8	115.296
		107.554			112.761
		217.802			228.253
		217.792			228.192
		217.762			228.276
		217.789			228.265

Bar. 30.33. Ther. 56.0. Run + 1.2. Images 2-3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1882, August 6.

$b^1$			$a^1$		
h	m	R	h	m	R
19	44.3	112.760	19	50.6	110.073
20	8.7	115.239	20	1.9	107.508
20	17.1	112.752	20	25.4	110.071
20	42.7	115.263	20	34.5	107.542
		112.749			110.049
		228.182			217.814
		228.180			217.766
		228.239			217.831
		228.300			217.836

Bar. 30.28. Ther. 44.5. Run + 4.3. Images 2-3. Steadiness 2. F.P. 9.38.

 $\alpha_2$  Centauri.

1882, August 7.

$a^1$			$b^1$		
h	m	R	h	m	R
19	6.5	107.615	19	11.4	115.240
19	30.6	110.035	19	20.3	112.819
19	46.0	107.603	19	51.5	115.210
20	7.3	109.980	20	1.0	112.826
		107.595			115.172
		217.761			228.269
		217.806			228.243
		217.799			228.223
		217.781			227.217

Bar. 30.29. Ther. 55.0. Run + 4.1. Images 2. Steadiness 2-3. F.P. 9.50.

$\alpha_2$  Centauri.

1882, August 11.

 $b^1$  $a^1$ 

h	m	r	r	R	h	m	r	r	R
19	6.5	115.206	112.849	228.217	19	19.5	110.028	107.622	217.811
19	11.7	112.878	115.201	228.246	19	24.6	107.639	109.991	217.805
19	44.6	115.180	112.802	228.183	19	33.2	109.984	107.582	217.739
19	50.0	112.810	115.195	228.213	19	38.2	107.586	110.006	217.769

in  
Bar. 30.22. Ther. 51.0. Run + 3.7. Images 2. Steadiness 2.

 $\alpha_2$  Centauri.

1882, August 12.

 $a^1$  $b^1$ 

h	m	r	r	R	h	m	r	r	R
19	24.0	107.627	110.006	217.797	19	34.5	112.830	115.200	228.219
19	28.7	110.009	107.642	217.819	19	38.4	115.185	112.829	228.207
19	56.3	107.591	109.971	217.757	19	46.3	112.806	115.207	228.216
20	1.0	110.011	107.626	217.838	19	50.8	115.213	112.812	228.234

in  
Bar. 30.11. Ther. 50.0. Run + 2.9. Images 1. Steadiness 1.

 $\alpha_2$  Centauri.

1882, August 18.

 $b^1$  $a^1$ 

h	m	r	r	R	h	m	r	r	R
19	44.0	110.057	107.606	217.848	19	56.0	115.212	112.781	228.210
19	49.4	107.636	110.010	217.837	19	59.6	112.792	115.196	228.209
20	22.3	110.029	107.612	217.869	20	9.2	115.174	112.831	228.238
20	29.0	107.580	110.017	217.834	20	14.9	112.760	115.195	228.196

in  
Bar. 30.22. Ther. 47.0. Run + 2.0. Images 2. Steadiness 2.

## Canopus.

1882, September 1.

 $a$  $b$ 

h	m	r	r	R	h	m	r	r	R
0	18.7	54.958	52.487	107.576	0	29.0	47.524	45.050	92.695
0	23.8	52.479	54.931	107.537	0	36.9	45.112	47.550	92.775
0	55.7	54.971	52.534	107.609	0	41.7	47.536	45.103	92.748
1	0.9	52.525	54.969	107.594	0	47.4	45.074	47.542	92.720

in  
Bar. 30.23. Ther. 43.0. Run + 3.6. Images 2. Steadiness 2-3.

## Sirius.

1882, September 1.

 $a$  $b$ 

h	m	r	r	R	h	m	r	r	R
1	54.2	195.581	195.589	391.854	2	7.5	192.388	192.386	385.275
1	59.8	195.644	195.620	391.891	2	13.1	192.416	192.433	385.314
2	33.5	195.731	195.733	391.864	2	19.5	192.448	192.445	385.323
2	40.0	195.748	195.778	391.899	2	27.7	192.497	192.409	385.295

in  
Bar. 30.23. Ther. 44.0. Run + 4.1. Images 2. Steadiness 2-3. F.P. 9.50.

## Sirius.

1882, September 3.

*b*
*a*

h	m	r	r	R	h	m	r	r	R
3	44.1	192°540	192°510	385°249	3	54.6	195°873	195°851	391°923
3	49.0	192°546	192°561	385°300	3	58.5	195°841	195°807	391°842
4	17.8	192°569	192°539	385°273	4	5.6	195°862	195°846	391°894
4	23.4	192°570	192°569	385°299	4	12.0	195°847	195°830	391°855

Bar. 30°30. Ther. 49°0. Run + 4°3. Images 2. Steadiness 2. F.P. 9°50.

## Sirius.

1882, September 8.

*a*
*b*

h	m	r	r	R	h	m	r	r	R
3	17°0	197°020	194°604	391°881	3	28°5	193°797	191°296	385°312
3	22°2	194°561	197°095	391°903	3	32°5	191°260	193°762	385°236
3	55°8	197°093	194°638	391°926	3	40°7	193°772	191°308	385°282
3	59°9	194°621	197°071	391°883	3	48°0	191°294	193°806	385°292

Bar. 30°21. Ther. 52°0. Run + 5°0. Images 2. Steadiness 2.

## Sirius.

1882, September 25.

*b*
*a*

h	m	r	r	R	h	m	r	r	R
3	58.7	191.327	193.790	385.298	4	11.3	194.623	197.053	391.853
4	4.5	193.782	191.296	385.253	4	18.3	197.108	194.587	391.866
4	40.5	191.343	193.788	385.277	4	27.7	194.655	197.060	391.878
4	45.3	193.795	191.351	385.290	4	32.7	197.099	194.631	391.890

Bar. 30°08. Ther. 51°0. Run + 4°8. Images 2. Steadiness 1-2. F.P. 9°50.

## Sirius.

1882, September 27.

*a*
*b*

h	m	r	r	R	h	m	r	r	R
4	15.5	194.651	197.060	391.888	4	26.2	191.383	193.793	385.335
4	20.6	197.113	194.644	391.930	4	30.3	193.768	191.383	385.306
4	52.2	194.638	197.086	391.873	4	43.1	191.333	193.797	385.278
4	56.2	197.038	194.616	391.800	4	47.8	193.803	191.334	385.282

Bar. 30°56. Ther. 50°0. Run + 3°8. Images 2-3. Steadiness 2. F.P. 9°50.

## Sirius.

1882, September 28.

*b*
*a*

h	m	r	r	R	h	m	r	r	R
3	42.5	193°730	191°309	385°239	3	52.6	197°145	194°640	391°985
3	46.7	191°276	193°741	385°212	3	58.3	194°589	197°087	391°869
4	20.9	193°794	191°391	385°347	4	6.5	197°086	194°658	391°928
4	28.0	191°361	193°821	385°338	4	12.9	194°610	197°064	391°851

Bar. 30°24. Ther. 51°0. Run + 3°1. Images 2. Steadiness 2-3. F.P. 9°50.

## Sirius.

1882, September 30.

a				b			
h	m	r	R	h	m	r	R
3	41.7	194.537	197.065	3	52.1	191.310	193.785
3	46.4	197.048	194.604	3	56.0	193.764	191.293
4	15.2	194.628	197.066	4	2.6	191.325	193.778
4	19.4	197.057	194.632	4	8.0	193.770	191.311

in  
Bar. 30.44. Ther. 49.5. Run + 3.7. Images 1-2. Steadiness 1-2. F.P. 9.50.

## Sirius.

1882, October 1.

b				a			
h	m	r	R	h	m	r	R
3	42.5	193.784	191.255	3	57.8	197.064	194.569
3	47.3	191.295	193.796	4	6.2	194.600	197.041
4	31.3	191.273	193.774	4	24.3	197.047	194.631

in  
Bar. 30.32. Ther. 51.0. Run + 4.5. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Sirius.

1882, October 2.

a				b			
h	m	r	R	h	m	r	R
4	10.5	194.644	197.081	4	21.5	191.358	193.798
4	15.3	197.079	194.643	4	27.6	193.801	191.352
4	47.8	194.651	197.086	4	37.7	191.344	193.775
4	54.7	197.078	194.667	4	42.1	193.812	191.335

in  
Bar. 30.19. Ther. 52.5. Run + 2.9. Images 1-2. Steadiness 2. F.P. 9.50.

## Canopus.

1882, November 6.

a				b			
h	m	r	R	h	m	r	R
1	33.8	52.548	54.971	1	50.1	45.141	47.589
1	41.8	54.958	52.559	1	56.7	47.545	45.136
2	20.7	52.532	54.989	2	6.1	45.123	47.585
2	26.4	54.973	52.534	2	13.8	47.561	45.130

in  
Bar. 30.47. Ther. 48.5. Run + 5.3. Images 2. Steadiness 2-3. F.P. 9.50.

## Canopus.

1882, November 7.

b				a			
h	m	r	R	h	m	r	R
1	4.5	45.136	47.556	1	14.5	52.530	55.013
1	8.0	47.561	45.114	1	19.0	54.950	52.537
1	47.5	45.141	47.558	1	28.5	52.470	54.953
1	59.5	47.545	45.155	1	39.5	54.973	52.544

in  
Bar. 30.36. Ther. 57.0. Run + 5.5. Images 2-3. Steadiness 2. F.P. 9.50.



## Canopus.

1882, November 10.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	<i>R</i>
1	48.5	54.975	52.567	107.615	2	5.4	47.575	45.130	92.763
1	58.0	52.507	54.923	107.500	2	10.2	45.162	47.571	92.790
2	32.4	55.010	52.545	107.613	2	18.4	47.522	45.119	92.695
2	35.6	52.562	54.963	107.583	2	25.4	45.145	47.588	92.784

Bar. 30.17. Ther. 58.0. Run + 5.4. Images 2. Steadiness 2. F.P. 9.50.

## Sirius.

1883, January 28.

<i>a</i>					<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
4	16.4	197.135	194.660	391.960	4	22.4	191.345	193.781	385.278
4	37.4	194.706	197.152	392.008	4	29.4	193.743	191.315	385.205
4	41.9	197.121	194.716	391.983	4	46.9	191.315	193.761	385.212
5	2.9	194.719	197.131	391.984	4	56.9	193.780	191.321	385.232

Bar. 29.97. Ther. 72.0. Run + 4.3. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Sirius.

1883, January 29.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
4	15.3	191.323	193.779	385.259	4	21.8	197.097	194.710	391.967
4	36.8	193.805	191.370	385.316	4	29.3	194.710	197.179	392.043

Bar. 29.97. Ther. 76.0. Run + 3.0. Images 2. Steadiness 2-3. F.P. 9.50.

## Sirius.

1883, January 30.

<i>a</i>				<i>b</i>			
h	m	r	R	h	m	r	R
4	38.7	197.118	194.771	4	44.2	191.376	193.745
4	58.5	194.711	197.125	4	51.5	193.726	191.381
			392.038				385.260
			391.973				385.242

Bar. 29.87. Ther. 70.0. Run + 5.2. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Sirius.

1883, February 2.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
4	19.4	191.388	193.762	385.306	4	26.4	197.094	194.705	391.959
4	42.4	193.767	191.371	385.280	4	33.4	194.722	197.134	392.010

Bar. 30.02. Ther. 65.0. Run + 3.9. Images 1-2. Steadiness 2. F.P. 9.50.

## Sirius.

1883, February 4.

<i>b</i>				<i>a</i>					
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>		
4 28.7		191.391	193.764	385.305	4 34.7	197.148	194.729	392.031	
4 45.7		193.769	191.383	385.292	4 41.2	194.726	197.119	391.995	
in									
Bar. 30.09.		Ther. 64.°.		Run + 5.3.		Images 2.		Steadiness 2-3.	

## Sirius.

1883, February 5.

<i>b</i>				<i>a</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
4 32.6		191.350	193.774	385.270	4 37.6	197.111	194.692	391.953
4 50.1		193.766	191.369	385.272	4 44.6	194.737	197.124	392.007
in								
Bar. 30.07.		Ther. 68°. Run + 5.1.		Images 3.		Steadiness 3. F.P. 9.50.		

## Sirius.

1883, February 7.

<i>a</i>				<i>b</i>			
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>
4	44.6	194.752	197.088	4	49.9	193.765	191.421
5	1.4	197.125	194.738	4	55.4	191.388	193.777
in							
Bar. 30.05.		Ther. 66°.		Run + 4.1.		Images 2.	
						Steadiness 2-3.	
						F.P. 9.50.	

## Sirius.

1883, March 5.

<i>a</i>				<i>b</i>				
<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>R</i>	
9 26.8		197.154	194.772	392.051	9 33.3	191.378	193.768	385.274
9 48.1		194.759	197.124	392.016	9 40.7	193.815	191.401	385.348
9 56.3		197.129	194.700	391.967	10 2.6	191.358	193.742	385.244
10 23.0		194.741	197.120	392.015	10 12.5	193.756	191.324	385.231
in								
Bar. 30.13. Ther. 67.0. Run + 4.8. Images 2-3. Steadiness 2-3. F.P. 9.50.								

## Sirius.

1883, March 8.

<i>b</i>				<i>a</i>					
h	m	r	R	h	m	r	R		
9	2.2	191.389	193.771	385.280	9	8.8	197.145	194.747	392.013
9	27.0	193.723	191.357	385.208	9	16.8	194.783	197.129	392.035
9	38.9	191.351	193.786	385.270	9	44.2	197.164	194.721	392.019
9	58.1	193.748	191.358	385.249	9	50.8	194.768	197.145	392.049
in									
Bar. 30.18. Ther. 61.°.				Run + 4.6. Images 3. Steadiness 3. F.P. 9.50.					

## Sirius.

1883, March 12.

<i>b</i>			<i>a</i>		
h	m	R	h	m	R
10	1'9	191'321 193'795 385'260	10	7'1	197'182 194'718 392'044
10	20'0	193'746 191'375 385'278	10	13'6	194'718 197'133 392'000
10	29'7	191'357 193'720 385'242	10	35'0	197'126 194'730 392'021
10	50'0	193'737 191'346 385'271	10	41'5	194'709 197'153 392'034

in  
Bar. 30'01. Ther. 63'0. Run + 5'3. Images 3. Steadiness 3. F.P. 9'50.

## Sirius.

1883, March 13.

<i>a</i>			<i>b</i>		
h	m	R	h	m	R
10	10'7	197'172 194'729 392'047	10	15'5	191'360 193'724 385'236
10	25'7	194'714 197'142 392'012	10	20'5	193'739 191'357 385'252
10	30'9	197'091 194'722 391'974	10	37'3	191'360 193'718 385'250
10	50'0	194'727 197'100 392'007	10	44'2	193'710 191'340 385'229

in  
Bar. 30'07. Ther. 67'0. Run + 4'1. Images 1-2. Steadiness 2-3. F.P. 9'50.

## Sirius.

1883, March 14.

<i>a</i>			<i>b</i>		
h	m	R	h	m	R
10	9'0	197'142 194'713 392'002	10	18'5	191'370 193'738 385'265
10	13'6	194'740 197'158 392'048	10	22'1	193'751 191'330 385'242
10	41'5	194'701 197'172 392'046	10	28'0	193'760 191'349 385'274
10	44'2	197'112 194'693 391'982	10	34'0	191'362 193'728 385'261

in  
Bar. 30'23. Ther. 62'0. Run + 4'2. Images 2-3. Steadiness 2-3. F.P. 9'50.

## Sirius.

1883, March 16.

<i>b</i>			<i>a</i>		
h	m	R	h	m	R
10	1'7	191'373 193'772 385'285	10	12'8	197'117 194'729 391'991
10	7'4	193'732 191'333 385'210	10	18'2	194'726 197'101 391'976
10	35'8	193'743 191'345 385'255	10	24'4	194'764 197'157 392'075
10	41'2	191'293 193'758 385'225	10	30'5	197'152 194'713 392'023

in  
Bar. 30'00. Ther. 73'0. Run + 4'0. Images 2-3. Steadiness 2-3. F.P. 9'50.

## Sirius.

1883, March 22.

<i>b</i>			<i>a</i>		
h	m	R	h	m	R
9	6'4	191'380 193'763 385'263	9	15'9	197'122 194'813 392'057
9	10'3	193'753 191'342 385'216	9	22'4	194'718 197'133 391'975
9	45'9	193'802 191'346 385'282	9	30'2	194'757 197'093 391'976
9	54'4	191'389 193'746 385'273	9	37'9	197'124 194'720 391'973

in  
Bar. 30'10. Ther. 67'0. Run + 3'5. Images 3. Steadiness 2-3. F.P. 9'50.

## Canopus.

1883, March 24.

a			b		
h	m	R	h	m	R
11	28 <sup>o</sup>	54 <sup>o</sup> 949	11	38 <sup>o</sup>	47 <sup>o</sup> 567
11	32 <sup>o</sup>	52 <sup>o</sup> 542	11	44 <sup>o</sup>	45 <sup>o</sup> 118
12	3 <sup>o</sup> 5	54 <sup>o</sup> 933	11	51 <sup>o</sup> 2	47 <sup>o</sup> 538
12	10 <sup>o</sup> 0	52 <sup>o</sup> 536	11	56 <sup>o</sup> 1	45 <sup>o</sup> 132
		52 <sup>o</sup> 498			45 <sup>o</sup> 128
		54 <sup>o</sup> 968			47 <sup>o</sup> 513
		107 <sup>o</sup> 540			92 <sup>o</sup> 773
		107 <sup>o</sup> 606			92 <sup>o</sup> 712
		107 <sup>o</sup> 563			92 <sup>o</sup> 756
		107 <sup>o</sup> 578			92 <sup>o</sup> 787

in  
Bar. 30<sup>o</sup> 13. Ther. 61<sup>o</sup> 0. Run + 5<sup>o</sup> 3. Images 2-3. Steadiness 2-3. F.P. 9<sup>o</sup> 50.

## Sirius.

1883, March 25.

b			a		
h	m	R	h	m	R
9	54 <sup>o</sup>	191 <sup>o</sup> 347	10	3 <sup>o</sup> 9	197 <sup>o</sup> 173
9	58 <sup>o</sup>	193 <sup>o</sup> 758	10	7 <sup>o</sup> 6	194 <sup>o</sup> 711
10	27 <sup>o</sup> 3	191 <sup>o</sup> 360	10	13 <sup>o</sup> 7	197 <sup>o</sup> 130
10	35 <sup>o</sup> 0	193 <sup>o</sup> 742	10	20 <sup>o</sup> 6	194 <sup>o</sup> 757
		191 <sup>o</sup> 332			197 <sup>o</sup> 113
		193 <sup>o</sup> 770			194 <sup>o</sup> 750
		385 <sup>o</sup> 246			392 <sup>o</sup> 026
		385 <sup>o</sup> 207			391 <sup>o</sup> 989
		385 <sup>o</sup> 256			392 <sup>o</sup> 028
		385 <sup>o</sup> 195			392 <sup>o</sup> 016

in  
Bar. 30<sup>o</sup> 10. Ther. 65<sup>o</sup> 0. Run + 3<sup>o</sup> 8. Images 2-3. Steadiness 2. F.P. 9<sup>o</sup> 50.

## Sirius.

1883, March 27.

a			b		
h	m	R	h	m	R
9	48 <sup>o</sup> 2	197 <sup>o</sup> 154	9	55 <sup>o</sup> 5	191 <sup>o</sup> 343
10	7 <sup>o</sup> 5	194 <sup>o</sup> 724	10	3 <sup>o</sup> 0	193 <sup>o</sup> 758
10	10 <sup>o</sup> 5	197 <sup>o</sup> 151	10	16 <sup>o</sup> 5	191 <sup>o</sup> 339
10	27 <sup>o</sup> 7	194 <sup>o</sup> 736	10	23 <sup>o</sup> 0	193 <sup>o</sup> 739
		194 <sup>o</sup> 743			191 <sup>o</sup> 390
		197 <sup>o</sup> 162			193 <sup>o</sup> 775
		392 <sup>o</sup> 039			385 <sup>o</sup> 268
		392 <sup>o</sup> 030			385 <sup>o</sup> 230
		392 <sup>o</sup> 040			385 <sup>o</sup> 268
		392 <sup>o</sup> 008			385 <sup>o</sup> 288

in  
Bar. 30<sup>o</sup> 08. Ther. 65<sup>o</sup> 0. Run + 5<sup>o</sup> 4. Images 2-3. Steadiness 2-3. F.P. 9<sup>o</sup> 50.

## Sirius.

1883, March 28.

b			a		
h	m	R	h	m	R
10	0 <sup>o</sup> 0	191 <sup>o</sup> 377	10	5 <sup>o</sup> 5	197 <sup>o</sup> 155
10	16 <sup>o</sup> 7	193 <sup>o</sup> 748	10	11 <sup>o</sup> 5	194 <sup>o</sup> 723
10	22 <sup>o</sup> 7	191 <sup>o</sup> 332	10	27 <sup>o</sup> 7	197 <sup>o</sup> 146
10	40 <sup>o</sup> 5	193 <sup>o</sup> 679	10	35 <sup>o</sup> 5	194 <sup>o</sup> 769
		191 <sup>o</sup> 351			197 <sup>o</sup> 089
		193 <sup>o</sup> 780			194 <sup>o</sup> 759
		385 <sup>o</sup> 262			392 <sup>o</sup> 027
		385 <sup>o</sup> 235			392 <sup>o</sup> 031
		385 <sup>o</sup> 272			392 <sup>o</sup> 066
		385 <sup>o</sup> 208			392 <sup>o</sup> 026

in  
Bar. 30<sup>o</sup> 14. Ther. 61<sup>o</sup> 0. Run + 3<sup>o</sup> 8. Images 2-3. Steadiness 2-3. F.P. 9<sup>o</sup> 50.

 $\alpha_2$  Centauri.

1883, April 3.

$\delta^1$			$\alpha^1$		
h	m	R	h	m	R
9	46 <sup>o</sup> 5	107 <sup>o</sup> 658	9	55 <sup>o</sup> 5	115 <sup>o</sup> 135
10	10 <sup>o</sup> 0	110 <sup>o</sup> 106	10	2 <sup>o</sup> 5	112 <sup>o</sup> 758
10	17 <sup>o</sup> 5	107 <sup>o</sup> 676	10	26 <sup>o</sup> 5	115 <sup>o</sup> 129
10	39 <sup>o</sup> 0	110 <sup>o</sup> 091	10	33 <sup>o</sup> 5	112 <sup>o</sup> 780
		110 <sup>o</sup> 114			115 <sup>o</sup> 165
		107 <sup>o</sup> 676			112 <sup>o</sup> 757
		217 <sup>o</sup> 934			228 <sup>o</sup> 037
		217 <sup>o</sup> 926			228 <sup>o</sup> 075
		217 <sup>o</sup> 862			228 <sup>o</sup> 021
		217 <sup>o</sup> 913			228 <sup>o</sup> 072

in  
Bar. 30<sup>o</sup> 17. Ther. 52<sup>o</sup> 0. Run + 3<sup>o</sup> 2. Images 3. Steadiness 3. F.P. 9<sup>o</sup> 50.

$\alpha_2$  Centauri.

1883, April 3.

 $a^1$ 

h	m	r	r	R
17	4.0	112.838	115.227	228.152
17	25.5	115.220	112.799	228.115
17	31.5	112.842	115.217	228.158
17	54.0	115.206	112.805	228.121

 $b^1$ 

h	m	r	r	R
17	9.5	110.095	107.683	217.863
17	18.5	107.681	110.077	217.846
17	39.5	110.087	107.700	217.884
17	48.0	107.654	110.101	217.855

in  
Bar. 30.19. Ther. 56°. Run + 2.8. Images 1-2. Steadiness 1-2. F.P. 9.50.

 $\alpha_2$  Centauri.

1883, April 4.

 $b^1$ 

h	m	r	r	R
17	12.3	107.692	110.105	217.884
17	28.3	110.078	107.671	217.842
17	34.5	107.690	110.088	217.874
17	51.3	110.097	107.662	217.862

 $a^1$ 

h	m	r	r	R
17	15.8	115.203	112.840	228.135
17	22.8	112.803	115.206	228.105
17	38.3	115.222	112.823	228.147
17	45.3	112.804	115.215	228.126

in  
Bar. 30.15. Ther. 50°. Run + 3.4. Images 1-2. Steadiness 1-2. F.P. 9.50.

 $\alpha_2$  Centauri.

1883, April 5.

 $b^1$ 

h	m	r	r	R
11	20.0	107.698	110.121	217.921
11	37.7	110.092	107.696	217.883
11	44.3	107.688	110.108	217.887
12	3.8	110.088	107.693	217.866

 $a^1$ 

h	m	r	r	R
11	24.0	115.198	112.800	228.101
11	32.7	112.798	115.217	228.115
11	49.3	115.185	112.808	228.086
11	56.8	112.837	115.219	228.146

in  
Bar. 30.13. Ther. 56°. Run + 2.5. Images 1-2. Steadiness 1-2. F.P. 9.50.

 $\alpha_2$  Centauri.

1883, April 7.

 $b^1$ 

h	m	r	r	R
17	23.1	107.686	110.076	217.852
17	41.6	110.061	107.707	217.866
17	52.8	107.704	110.103	217.910
18	11.0	110.079	107.679	217.871

 $a^1$ 

h	m	r	r	R
17	27.5	115.218	112.809	228.124
17	35.3	112.797	115.230	228.127
17	56.9	115.191	112.779	228.081
18	6.0	112.798	115.183	228.099

in  
Bar. 30.04. Ther. 52°. Run + 5.1. Images 2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1883, April 8.

 $a^1$ 

h	m	r	r	R
11	12.4	112.809	115.184	228.100
11	31.6	115.198	112.823	228.119
11	37.1	112.834	115.179	228.109
11	56.5	115.202	112.810	228.101

 $b^1$ 

h	m	r	r	R
11	18.2	110.093	107.688	217.882
11	25.3	107.699	110.057	217.854
11	42.2	110.128	107.694	217.913
11	49.3	107.682	110.071	217.841

in  
Bar. 30.03. Ther. 62°. Run + 4.5. Images 1-2. Steadiness 1-2. F.P. 9.50.

$\alpha_2$  Centauri.

1883, April 9.

 $\delta^1$  $\alpha^1$ 

h	m	r	r	R	h	m	r	r	R
11	34.5	107.684	110.097	217.878	11	40.8	115.171	112.782	228.051
11	52.6	110.079	107.703	217.871	11	46.1	112.814	115.138	228.048
11	57.4	107.713	110.104	217.905	12	5.9	115.183	112.853	228.125

in  
Bar. 30.24. Ther. 52°. Run + 4.8. Images 1-2. Steadiness 1-2. F.P. 9.50.

 $\alpha_2$  Centauri.

1883, April 10.

 $\delta^1$  $\alpha^1$ 

h	m	r	r	R	h	m	r	r	R
17	34.2	107.716	110.063	217.874	17	38.6	115.188	112.834	228.124
17	57.6	110.086	107.691	217.883	17	52.1	112.806	115.224	228.139
18	16.0	107.666	110.068	217.850	18	22.1	115.168	112.813	228.109
18	35.3	110.060	107.658	217.845	18	28.5	112.807	115.205	228.144

in  
Bar. 30.26. Ther. 54°. Run + 4.0. Images 2. Steadiness 2. F.P. 9.50.

 $\alpha_2$  Centauri.

1883, April 12.

 $\alpha^1$  $\delta^1$ 

h	m	r	r	R	h	m	r	r	R
17	45.9	115.202	112.807	228.113	17	51.7	107.705	110.064	217.870
18	6.2	112.807	115.157	228.080	17	59.0	110.113	107.694	217.912
18	13.3	115.165	112.788	228.073	18	22.5	107.656	110.096	217.869
18	34.9	112.792	115.213	228.139	18	28.9	110.077	107.667	217.865

in  
Bar. 29.90. Ther. 57°. Run + 4.4. Images 2. Steadiness 2-3. F.P. 9.50.

 $\alpha_2$  Centauri.

1883, April 14.

 $\delta^1$  $\alpha^1$ 

h	m	r	r	R	h	m	r	r	R
17	11.5	110.113	107.713	217.910	17	17.9	112.838	115.198	228.127
17	30.0	107.705	110.092	217.889	17	25.5	115.145	112.811	228.051
17	36.2	110.098	107.670	217.862	17	43.6	112.822	115.164	228.089
18	5.2	107.709	110.060	217.877	17	56.5	115.170	112.826	228.105

in  
Bar. 30.21. Ther. 59°. Run + 2.5. Images 3. Steadiness 3. F.P. 9.50.

 $\alpha_2$  Centauri.

1883, April 16.

 $\alpha^1$  $\delta^1$ 

h	m	r	r	R	h	m	r	r	R
9	58.0	115.148	112.775	228.076	10	6.0	107.675	110.096	217.915
10	21.0	112.788	115.188	228.112	10	14.0	110.129	107.690	217.957
10	27.0	115.181	112.793	228.107	10	36.0	107.692	110.120	217.935
10	52.0	112.801	115.192	228.111	10	44.5	110.066	107.716	217.901

in  
Bar. 30.05. Ther. 60°. Run + 4.8. Images 2. Steadiness 2-3. F.P. 9.50.

$\alpha_2$  Centauri.

1883, April 18.

$a^1$				$b^1$					
h	m	r	R	h	m	r	R		
17	25.2	112.824	115.272	228.190	17	29.7	110.116	107.683	217.890
17	41.4	115.229	112.850	228.181	17	36.0	107.708	110.125	217.926
17	49.0	112.830	115.220	228.155	17	55.5	110.105	107.693	217.901
18	7.5	115.198	112.850	228.165	18	1.7	107.672	110.108	217.886

in  
 Bar. 30.03. Ther. 60.0. Run + 2.4. Images 2-3. Steadiness 2-3. F.P. 9.50.

$\alpha_2$ Centauri.				1883, April 20.					
$\alpha^1$				$\delta^1$					
h	m	r	R	h	m	r	R		
9	39.4	112.796	115.171	228.132	9	44.8	110.078	107.698	217.935
10	1.0	115.162	112.793	228.103	9	51.5	107.686	110.104	217.943
10	38.7	112.784	115.185	228.093	10	41.9	110.140	107.710	217.969

in

Bar. 29.77. Ther. 60°.5. Run + 3.0. Images 2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.
1883, April 23.

$\delta^1$					$\alpha^1$				
h	m	r	R		h	m	r	R	
11	19.5	110.105	107.709		11	26.3	112.783	115.210	228.096
11	37.3	107.704	110.120		11	31.7	115.203	112.796	228.099
11	46.5	110.130	107.718		11	52.6	112.812	115.215	228.118
12	6.2	107.713	110.098		11	58.3	115.182	112.811	228.083

in  
 Bar. 29.92. Ther. 57°. Run + 3.4. Images 1-2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.
 1883, April 23.

$\delta^1$

$\alpha^1$

h	m	r	R	h	m	r	R		
17	38.9	110.096	107.721	217.913	17	44.9	112.801	115.219	228.123
17	56.5	107.720	110.077	217.900	17	50.8	115.217	112.834	228.157
18	5.4	110.104	107.680	217.893	18	12.3	112.772	115.196	228.087
18	26.5	107.697	110.080	217.896	18	18.5	115.190	112.798	228.112

in  
 Bar. 29.89. Ther. 56°. Run + 3.7. Images 2. Steadiness 2. F.P. 9.50.

$\alpha_2$  Centauri.

1883, April 25.

$a^1$					$b^1$			
h	m	r	R		h	m	r	R
10	13.4	112.770	115.158		10	19.0	110.075	107.663
10	35.5	115.158	112.784		10	28.3	107.661	110.120
10	43.7	112.796	115.181		10	50.8	110.085	107.673

<sup>in</sup>  
 Bar. 30.05. Ther. 59.0. Run + 4.3.

Images 1-2. Steadiness 2-3. F.P. 9.50.

$\alpha_2$  Centauri.

1883, April 28.

$\delta^1$					$\alpha^1$				
h	m	r	r	R	h	m	r	r	R
10	13.2	107.702	110.094	217.936	10	17.6	115.189	112.774	228.102
10	28.0	110.093	107.686	217.909	10	23.8	112.802	115.177	228.115
10	39.2	107.688	110.111	217.921	10	44.7	115.171	112.783	228.077
10	59.0	110.112	107.724	217.947	10	50.0	112.808	115.183	228.111

in  
Bar. 30.20. Ther. 57.5. Run + 2.5. Images 2. Steadiness 2. F.P. 9.50.

## Canopus.

1883, April 30.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
11	21.5	54.930	52.528	107.548	11	32.0	47.567	45.157	92.800
11	27.2	52.566	54.966	107.626	11	40.0	45.146	47.546	92.772
11	57.0	54.943	52.525	107.585	11	44.5	47.513	45.133	92.728
12	2.8	52.526	54.933	107.582	11	51.0	45.179	47.544	92.807

in  
Bar. 30.14. Ther. 55.0. Run + 5.9. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Canopus.

1883, May 1.

<i>a</i>					<i>b</i>				
h	m	r	r	R	h	m	r	r	R
11	20.0	54.919	52.603	107.610	11	30.2	47.524	45.174	92.772
11	24.8	52.561	54.948	107.600	11	34.2	45.151	47.563	92.791
11	56.4	54.891	52.562	107.568	11	44.5	47.530	45.147	92.758
12	1.9	52.595	54.939	107.654	11	49.5	45.160	47.521	92.764

in  
Bar. 30.07. Ther. 59.5. Run + 4.1. Images 2-3. Steadiness 2-3. F.P. 9.50.

## Canopus.

1883, May 3.

<i>b</i>					<i>a</i>				
h	m	r	r	R	h	m	r	r	R
10	9.0	45.219	47.522	92.791	10	19.0	52.573	54.961	107.595
10	13.6	47.561	45.194	92.806	10	25.8	54.974	52.577	107.615
10	49.5	45.169	47.571	92.800	10	35.2	52.587	54.943	107.597
10	55.5	47.519	45.176	92.758	10	42.5	54.941	52.583	107.594

in  
Bar. 30.00. Ther. 60.0. Run + 4.9. Images 2. Steadiness 2. F.P. 9.50.



## ERRATA AND ADDENDA.

## HELIOMETER OBSERVATIONS FOR STELLAR PARALLAX.

Page.	No.	Column.	For	Read
3	1	4	298·091	298·177
4	1	1	18·8·9	18·18·9
5	2	3	35·695	35·696
6	1	Ther.	39·8	42·5
8	1	„	48·1	48·4
„	2	8	467·206	467·256
9	1	Date	August 20.	August 30.
„	2	2	35·698	35·696
11	1	Ther.	55·3	53·3
13	5	Run	4·9	3·9
14	3	5	19·55·6	19·45·6
17	4	5	0·52·5	0·53·5
18	2	3	137·707	139·707
20	2	2	81·596	81·597
„	3	Date	November 24.	November 25.
„	5	8	282·092	282·093
21	1	Images	2	2-3
23	4	8	282·059	282·057
„	„	Steadiness	2	2-3
24	2	2	117·797	117·707
„	„	5	8·54·2	8·54·3
„	5	3	139·774	139·772
25	2	7	139·787	139·789
„	3	8	487·324	487·322
26	3	5	4·22·2	4·42·2
27	1	Stars	$\alpha, \beta$ .	$\alpha^1, \beta^1$ .
„	„	3	232·170	232·190
„	5	Star	$\alpha$ Centauri.	$\alpha_2$ Centauri.
„	„	Stars	$\beta, \alpha$ .	$\beta^1, \alpha^1$ .
„	„	6	234·639	234·689
29	3	5	13·12·3	13·21·3
30	1	Run	6·1	3·6
31	2	5	10·27 3	10·23·7

Page.	No.	Column.	For	Read
31	2	6	232·262	232·252
"	5	3	213·904	213·404
33	1	3	213·386	213·381
34	4	Steadiness	2	3
36	5	Ther.	64·0	63·5
37	1	"	61·5	62·3
39	5	7	144·273	144·276
43	1	Ther.	59·5	60·0
44	4	Images	1-2	2
45	5	Ther.	57·5	58·0
46	1	Steadiness	2-3	3
47	3	Ther.	48·0	49·3
48	5	"	46·5	45·3
49	3	6	150·078	150·079
50	1	Ther.	53·5	54·8
51	4	Steadiness	2-3	3
"	5	5	18·52·3	18·52·2
54	1	Steadiness	2	3
59	1	Run	2·5	2·8
"	5	Steadiness	2	3
61	1	Ther.	53·0	52·5
73	3	3	144·358	144·356
"	5	7	211·107	211·139
75	1	2	117·626	147·626
76	2	5	18·25·9	18·25·8
80	2	Images	2-3	3
"	"	Steadiness	2-3	3
85	5	3	171·929	171·926
91	4	2	194·140	194·190
"	"	Ther.	71·7	70·7
92	3	"	58·8	58·0
93	5	"	63·1	53·1
94	1	Images	3	3-4
98	1	7	193·706	193·766
"	3	Steadiness	3	3-4
99	2	Ther.	54·0	57·0
103	2	1	12·2·7	11·2·7
"	5	Images	3	3-4
104	1	"	3	3-4
105	1	5	18·2·4	18·12·4

Page.	No.	Column.	For	Read
106	3	Steadiness	3	3-4
108	2	6	243·000	243·300
"	4	Ther.	49·8	49·3
116	2	"	45·5	46·2
"	5	"	53·0	54·5
"	"	Images	2-3	1-2
"	"	Steadiness	2-3	1-2
117	3	Images	3	3-4
121	3	7	194·5c6	194·566
125	4	Images	2	3
127	4	Steadiness	3	3-4
128	1	"	3	3-4
"	4	Images	1-2	2
"	5	7	240·756	240·766
129	2	8	537·	538·
130	2	7	195·502	195·507
"	3	Steadiness	3	3-4
131	4	"	3	3-4
133	4	"	3	3-4
135	2	Bar.	29·81	29·89
"	4	Run	+ 0·4	- 0·4
"	"	Images	2	3
136	1	Ther.	46·0	64·0
139	4	"	59·0	60·0
140	4	Steadiness	3	3-4
144	3	Ther.	53·0	52·5
145	3	"	61·0	60·5
146	2	Steadiness	3	3-4
149	1	Ther.	46·0	45·5
150	2	8	511·599	511·559
"	3	F.P.	9·50	9·00
"	4	"	9·50	9·00
153	5	Images	2	3
160	1	Ther.	52·0	50·0
161	3	"	57·0	57·5
"	4	"	56·0	56·5
"	5	"	59·0	59·5

## DATA TO BE INSERTED IN HELIOMETER OBSERVATIONS.

Page.	No.	Bar.	Ther.	Run.	Page.	No.	Bar.	Ther.	Run.
		in.	°				in.	°	
9	2	30.34	55.0	+ 2.3	27	3	30.09	61.5	+ 3.9
10	5	30.42	55.0	+ 6.2	27	5	—	—	+ 2.7
12	5	—	—	+ 3.3	28	1	—	—	+ 3.9
14	5	30.07	53.2	+ 3.9	30	1	—	—	+ 3.6
15	1	30.10	50.0	+ 4.5	31	5	—	—	+ 4.7
21	3	30.14	55.0	+ 2.6					

Page.	No.	Images.	Steadiness.	Page.	No.	Images.	Steadiness.
5	1	3	3	11	5	1	2
	3	3	3-4	12	1	3	3
	5	2	2		2	3	3
6	1	1-2	2-3		3	2	3-4
	2	1-2	1-2		4	1-2	2
	4	2	2-3		5	1	1-2
	5	1-2	1-2	13	1	2-3	3
7	1	1-2	1-2		2	3-4	4
	2	2	3		3	3	3
	3	2-3	3-4		4	2-3	2-3
	4	4	3-4		5	1-2	2-3
	5	2	1-2	14	1	2	2-3
8	1	2	3-4		2	3-4	3
	2	2	2		3	1-2	2-3
	3	3-4	3-4		4	1-2	1-2
	4	2-3	2-3		5	1-2	3-4
	5	1-2	1-2	15	1	1-2	1-2
9	1	2	2		2	1-2	2
	3	2-3	2		3	2	2-3
	4	1	2		4	1	1
	5	1	2		5	3	3
10	1	2	3	16	2	2-3	2-3
	2	1-2	2-3		3	1-2	1-2
	3	3-4	3		4	1-2	1-2
	4	3	3	17	1	2	3-4
	5	3	3	18	2	2-3	2-3
11	1	2	2		5	2	2
	2	4	4	19	1	2	2-3
	3	2	2		2	2-3	2-3
	4	2	3		3	2	2

Page.	No.	Images.	Steadiness.	Page.	No.	Images.	Steadiness.
19	4	2-3	2-3	27	5	2	2-3
	5	3	3	28	3	3	3
20	1	2-3	2		4	2	2
	2	3	3		5	2-3	3
	3	2-3	2-3	29	1	3	3
	4	2	2-3		2	2	3
	5	2-3	2-3		4	3-4	3-4
21	1	2	3		5	2-3	3-4
	2	1-2	2-3	30	1	3	3
	3	3	3		2	2-3	3
	4	1-2	2-3		3	2-3	3
	5	1-2	2-3		4	1-2	2-3
22	1	2-3	2-3		5	2-3	3
	2	2-3	2-3	31	1	1-2	1-2
	3	1-2	2-3		2	1-2	1-2
	4	2	3		3	2	2
	5	3	3		4	2-3	3
23	1	2-3	3		5	2	2-3
	2	3	3	32	1	3	3-4
	3	1-2	1-2		2	2-3	2-3
	4	2-3	3		3	2	2
	5	2-3	2-3		4	3-4	3-4
24	1	1-2	2-3		5	3	3
	2	1-2	2-3	71	4	2	2-3
	3	1-2	3	72	1	2	2-3
	4	2	2-3	81	3	2	2
	5	2-3	2-3	83	2	2	2
25	1	2	3-4	84	2	3	3
	2	1-2	2	100	1	1-2	2
	3	2-3	3	104	5	2-3	3
	4	1	1-2	105	2	2	2
26	1	1	1-2		5	2	3
	2	1-2	2	108	1	3	3
	3	2	2-3		2	2	2-3
	4	2	2	109	3	2-3	2-3
	5	1-2	1-2		4	2	2
27	1	1-2	2	110	1	2	2
	2	1-2	2		2	2	2
	3	1-2	1-2	143	4	2	2-3
	4	2	2-3				

h m r r r  
Page 73. No. 1. Columns 1 to 4. Insert 8·18·8, 251·531, 253·897, 505·574.  
Page 156. No. 1. Insert F.P. 9·50.











